1: Bowen-Jones et al. K-5 (1955-1958) 1961
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low levels. Earlier improvements probably supplied the basis for change but more important was the fact that, for the first time, the effective Garrison of Malta included the whole population. The new machinery for public information, the desperate need for reducing disease incidence and preventing epidemics, and even food rationing and shortage had cumulatively beneficial effects on the public mind. More than all, it would seem, the military control of the besieged islands with its conscription of many Maltese males and the increased contact of British troops with the people, together with that strange uniting exaltation in face of danger observed in other countries, all shocked Malta into new ways of thought (Fig. 66).

After the war this momentum was maintained during the period of reconstruction. The Malta Memorial District Nursing Association, Child Health Clinics, and U.N.-established ante-natal clinics have now been accepted and their services utilised. In 1959 the infantile mortality rate was 34.7 per 1,000, leaving the memory of the rate of 350 per 1,000 in 1942 far behind.

This revolutionary change is of particular revelance to this study. Many of its implications need no labouring. The demographic consequences, for instance, are obvious enough, as also the slowness with which traditional ways of life in Malta have changed. For us the most important consequence is that rising generations through a new awareness of causation and consequence, of scientific processes, are becoming vulnerable to new ideas in associated fields. There are no great steps between preventive human medicine, inoculation, livestock injections and an appreciation of plant pathology. One difficulty remains; the rural areas are the least affected by these recent changes and those individuals in the countryside who are mentally injected with new ideas and understanding are, for various reasons, the least likely to remain in agriculture.

Exemplifying this continuing regional dichotomy, but unity in complexity, is the recent history of milk consumption and production (13). Traditionally in Malta, 'the entire milk supply has been delivered by the goat herself' (14). Sometimes living with their flocks in the *fossa* which surround Valletta, the herdsmen would wander the streets, milking the animals on demand. Bruce and Zammit in 1885 and 1905 showed that the bacillus of Undulant or Malta Fever was freely excreted in goats milk and that the high incidence in Malta of this debilitating, sometimes lethal, disease was a natural consequence of the general albeit low per capita consumption of fresh milk from predominantly diseased goats. After considerable investigation, a milk pasteurising plant was erected and the first pasteurised milk was distributed, Valletta, Floriana and Sliema being declared 'closed areas' within which the sale of raw milk became illegal. During World War II, further extension of this policy was prevented but, since most goats were slaughtered for meat because of fodder shortage and because consumption of tinned milk became normal, the incidence of Malta fever fell to record low levels. Post-war revival in goats' milk production resulted in general re-infection by brucellosis and in 1946 the incidence of undulant fever was the highest ever recorded. During the post-war period public health and welfare policies have encouraged the consumption of milk. Because of the incidence of Malta fever, this has entailed the provision of expensive pasteurising plant, the prevention of the sale of unpasteurised, and the official encouragement of production of cows' rather than goats' milk.

This particular development is examined at greater length in Chapter X but some main points of general import merit consideration here. First, Maltese society has recently been affected by social, dietetic and medical policies which profoundly affect the basis of social life. In general one might say that the Maltese way of life is being made more remote from the simple crudities of parochial experience. Secondly, in the field of health and social welfare, the criterion of scientifically measured need has been adopted as the basis of official policy and the question of availability of resources is regarded as of secondary importance. Thirdly, this increasing social sophistication has only very recently become operative in Maltese life and different scales of value exist in different generations and in different social groups. Lastly, it would be fair to say that, while the urban markets are still only relatively fastidious

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Chapter X

THE PRACTICE OF FARMING

We have considered at some length the physical and social environments in which Maltese farming exists, the distribution of crops and of agricultural regions, and examined some of the physical and legal characteristics of the land holdings in which the land is worked. There follows a more systematic statement and a tentative interpretation of farming practice, and studies of the Maltese countryfolk (Plate XVIII). 128

A. Livestock

Livestock in Malta, with the exception of the wandering, wasteland-feeding, herds of sheep and goats, is rarely seen or heard. Cattle, pigs, poultry and rabbits are all kept in stockyards or enclosures, and horses, mules and donkeys, when not working in the fields, are stabled the whole time. Their near invisibility has caused us to omit mention of them in earlier sections. As noted in Chapter VII, the Maltese farmer, faced with land shortage as a result of the high population density, has chosen to cultivate stall-fed fodders as short-rotation crops rather than to grow pastures or perennial forages. It is difficult to believe that he has not made the correct choice if the criterion adopted is that of intensive and continual use of difficult land resources and the minimising of waste. 231 [246] 231

Numerically, goats are by far the most important (Plate XVII). During the past century, they increased tenfold in number, a fact which marks the amazingly rapid increase in milk consumption, but in the last decade the trend has been reversed. The indigenous breeds, highly regarded in the Mediterranean up to the close of the eighteenth century, have now almost entirely been replaced by crosses with introduced British Saanen types. These crosses, in which Saanen blood remains dominant to the third or fourth generation, are hardy and prolific milkers, considering the quality of feed. Goats have remained important not only because they still supply about 40 per cent. of returned milk sales (and a large amount produced domestically and sold illegally), but also because, together with sheep, they utilise the great extent of wasteland as natural pasture. Some feeding on field grown forages is practised - during the survey such feeding was observed at Marsini on broad beans and at Wied Babu on sulla, for example - but this is rare. 234 311 [232] [246]

Land unusable for cultivation, and which makes up over 30 per cent. of the total area, provides the basic forage ration. Breeders and kids are given supplementary feeds of beans and hay crops. Although, therefore, goats are theoretically poor converters of fodder into milk, they cannot be displaced by spilch cows without at once offending the tastes of most Maltese for goats' milk and cheese, and making the uncultivable land almost totally unproductive. Sheep, somewhat less numerous than pigs, and by far less valuable, occupy the same ecological niche as do goats. Used domestically in many areas for milking, and by far the cheapest meat animals, these predominantly hairy rather than woolled sheep, of a strong German strain, are one of the 'crops' of the barren lands. In the absence of statistics of fodder consumption, the only evidence available is that obtained in interview. It would certainly seem that sheep and goats use much uncultivated land in their demand for feed, and are almost the only media for obtaining any yield at all from one-third of the land of Malta and Gozo. (See also Chapter X C.)

Pigs, numerically the most important meat animals, are almost all of recently introduced breeds, the English Large White in particular. Berkshire, Wessex Saddleback and Middle White have been tried, but the Large White Yorkshire, even when bred for lean meat to an average weight of 150 lb., has 231 232

2 [See page 256 --ANALYST]

231 proved its superior adaptability. An interesting point is that, before 1914, Serbia
232 and Croatia exported to Malta large numbers of pigs for fattening, while Yugo-
[139] slavia is today importing Large Whites as breeders from this country. It is now illegal to use other than pedigree boars for breeding, and the success of the Agricultural Department and the relative enthusiasm of the Maltese farmer in raising pig production standards have made Malta self-sufficient in this respect at least. Local grain and imported beans form the basis of feeding stuffs given by the best farmers. Animal slaughterings now average about 30,000 head per annum.

23 Of the total cattle population of some 6,000 in Malta and 3,000 in Gozo, nearly 30 per cent. are milch cows. This proportion has increased steadily since the first introduction of milch cows in the early years of British occupation. Before 1800, the indigenous Maltese breed, raised as general purpose stock in normal
[197] peasant tradition, alone was of importance. During the nineteenth century, specialised breeds were slowly introduced, a process which culminated in trials with Swiss Brown, Polish and Jersey cattle during the 1920's and '30's. By 1939, the cattle were mainly of mixed blood with the older strains predominating, and those still found are rapidly being displaced because of their low milk yields of some 1 to 1¼ gallons a day. The only surviving registered Maltese bull is to be seen on a farm at Bingemma Gap. In the post-war period, imported Ayrshires, British Friesians and Durham Shorthorns have proved very successful and popular. The Friesian strains in particular are very effective for crossing, important in that most country herds are still of mixed blood. A typical composition was noted in a stockyard on Delimara Peninsula - 13 milk cows and three heifers consisting of pure polled Maltese, Friesians, Friesian/Maltese crosses, Ayrshire/Maltese crosses, together with seven Friesian and crossed Friesian
[139] calves. Store cattle, of which over 3,000 are annually imported for fattening, are of various breeds, and come in the main from within the Mediterranean region.

231 This cattle population, which supplies half of the total production of milk in
234 Malta, and approximately two-thirds in Gozo, as well as over 75 per cent. of the beef consumed, is a very special element in Maltese agriculture. The imported store cattle have but to be fattened for slaughtering. Trustworthy statistics are lacking, but it would seem that over one-half of the imported fodder is consumed for this purpose.

The milch cows are given a maintenance ration of sulla and other leguminous fodders, and a production ration of imported beans, grains and cake. Carob beans and chopped prickly pear are sometimes used, and *oxalis cernua* may also be fed in moderation.

231 This large demand for fodders has so far been met by maintaining at high
234 level the production of leguminous and grain crops. Only in recent years has it
246 become economic to add high protein feeds. For social and health reasons the human consumption of high protein foods, milk in particular, has been encouraged. It has therefore often been suggested that further concentration on production of forage crops is necessary.

It is probable that such a policy would be both uneconomic and impracticable. In the first place, as long as it requires an average of 6 lb. weight of fodder protein to produce 1 lb. weight of animal food protein, then any country with restricted land resources has to look twice at the wastage involved. Such a country, having to import either animal products or vegetable products, or even both as in the case of Malta, has little to gain by specialising in a production technique in which over three-quarters of the crops grown and imported for feed merely go to maintaining livestock in existence. Thirdly, since that land now grazed by sheep and goats is virtually unusable in any other way, they cannot be simply replaced by cattle. More cattle would mean less arable farming of food crops and this would entail either the loss of potential vegetable exports from irrigated land or, more feasibly, the improvement of arable dry-farmed crops, e.g. sorghums in place of barley.

The impracticability of a policy designed vastly to increase forage production may be proved as follows. The growing of perennial fodder crops is out of the

1: Bowen-Jones et al. K-5 (1955-1958) 1961
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question unless a complete agricultural revolution committed Maltese farming 231
to thorough-going dairy farming specialisation. Such specialisation, given the 234
climatic and physiological difficulties, would not be easy to justify. A very considerable seasonal glut of milk exists between May and August at present, and 246
the Milk Marketing Undertaking cannot handle the flush. This degree of fluctuation could be lessened but not removed. Costs of production are such that not only would exports be uneconomic but imported tinned milk can and could considerably undercut home production. Local consumption of fresh cows' milk could not be expanded much more than 10 to 15 per cent. above the present level which is already the highest in the Mediterranean, as long as tinned milk is more easily preserved, and as long as the rural community keeps goats and sheep. The banning of milk imports and of the production of goat milk would hardly be in the consumer's economic or dietetic interests.

Horses, mules and donkeys, some 6,500 in number, are still very important 492
as work animals. For farm transport, they can only be replaced by the internal 407
combustion engine purchasable only by the more prosperous cultivators. Produce collection by merchants' lorries is increasing as also is the use of hired tractors for cultivation. The numbers of these animals is unlikely to decrease quickly outside the urban areas because of their usefulness in tilling difficult land.

Of the remaining small livestock, rabbits and poultry already make a very 231
large although immeasurable contribution to food supplies. Improvements in 235
quality could be obtained if farmers' interest was aroused. At present, mixed breeds of poor poultry are commercially uneconomic.

In conclusion, we must return to the vexed question of dairy-farming and 234
milk production in Malta. In 1950, the Director of Agriculture (1) put the 654
question: 'Under prevailing conditions in Malta and Gozo, which is the more profitable animal to keep? The cow or the goat?', and followed with the statement: '. . . no accurate answer backed by accurate scientific data has ever been given'. The same impasse had often been noted before, for example by Dawson Shepherd (2), and Stockdale (3). An unpublished report on Maltese Agriculture by a visiting F.A.O. commission (4) similarly found itself at sea in the absence of any firm information. In 1956, the complexity as well as the obscurity of the situation was manifested in a Report on the Dairy Industry by G. W. Ford (5). In this study, reference is made to the different conclusions reached by independent observers, and to intermediate suggestions made by Marshall (6), one of whose remarks: 'I simply cannot visualise hygienic milk production by the peasant farmer in Malta', our observations would endorse.

Milk-production in Malta is no longer a matter of economics but, as in many countries, is affected by social and dietetic policies. Brief mention was made in Chapter VI C of the problem of the incidence of undulant fever and its association with milk infected by *Brucellosis Melitensis*. Some 20 per cent. of Maltese goats are thus infected, and any dietetic campaign to encourage the drinking of milk, particularly important in child welfare, must take account of this. Few cows are thus far infected and elimination is easier. The problem that emerges is therefore both economic and social in character. It is felt by some that reliance on imported tinned milk is one solution but by others such a suggestion is regarded as humiliating. Another possible line of action is to replace goats with milch cows, and in 1956 a system by which herdsmen were offered one Dutch Friesian heifer in calf for 12 diseased goats actually came into operation. The third possibility is to accept the position as it exists at the moment, or slightly to modify it, and centralise milk distribution thus enabling pasteurisation. This too has been done. Even now however, the cost of tinned milk imports, the cost of producing cows' milk, the surplus of goats' milk, all these as well as the land use point mentioned earlier, still remain to be dealt with. As we shall see, the market for milk called into being as a social measure is now the mainstay of many farmers of all grades. The development of the centralised agency, the Milk Marketing Undertaking has been accompanied by a guaranteed price system. Some 50 per cent. of all milk producers have, as a result of this organising of wholesale purchases, formed their own union the K.M.H. - '*Kumpanija Maltija*

1: Bowen-Jones et al. K-5 (1955-1958) 1961
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tal-Halib'. These bodies have introduced some constant elements into an otherwise chaotic situation but this has also implied a certain rigidity. Sonce the costs of milk production are not accurately known and the costs to the National Economy are ignored one now has an artificial market with artificial prices which must be maintained to prevent economic disaster on the farms. (For such information on production and marketing as is available, the reader is further referred to Chapters X D and X E.)

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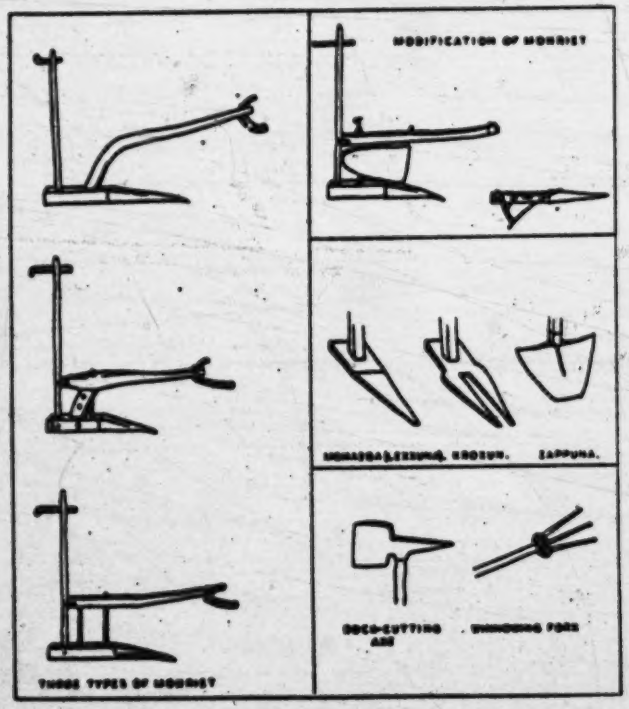

Fig. 149 Cultivation Equipment.

pitkali system is that the middlemen charged commission for negotiating sales but took no stock risks. Thus, when wholesalers and retailers had satisfied their requirements, playing for safety themselves, the *pitkali* merely informed some unfortunate producers that their product could not be sold. The prices attained for that which could be sold varied with the skill of the *pitkali*. Since many Maltese farmers need forward credit for various purposes, it was perfectly natural that the *pitkal* became not only a middleman but a supplier of credit and therefore to some extent a controller of production. The whole of this system resulted from two simple facts. First, the quantities of individual items that most farmers could daily offer for sale were so small as to make some concentrating agency a logical development. Secondly, the social legacy of dichotomy between town and country meant that the farmer was most often incapable of dealing directly with his market. Questions of literacy, language and social status still often put the farmer in a position of inferiority. The *pitkali* bridged that gap. In so doing they have sometimes exploited the farmers' ignorance. Many and vivid are the stories heard of their dishonesty; one such, told by several farmers, concerned the spring export crop of potatoes in 1955. They had been told by middlemen that the U.K. market had been depressed by competition from France and Spain and that therefore the prices offered would have to be low. In fact, shippers declared that the poor quality of the 1954 crops had discouraged some buyers but that the f.o.b. prices were still very much higher than reported by the middlemen. Most *pitkali* are no doubt honest but many farmers bypass them where possible and most others have suspicions - mostly born of their own ignorance.

During World War II, control of all agricultural produce had to be established and, since this time, the financial side of such transactions has been controlled by Government clerks at established *pitkali* markets although the middlemen still handle the actual sales. The intrusion of Governmental financial control has not removed suspicion although it has removed part of the cause of it at the cost of a higher commission charged to the producer. The annual cost of this protection and the controls mentioned below to individual farmers and to small co-operatives is almost £23,000 (5).

Another development has further confused the situation. Stemming from wartime controls, policies aimed at controlling prices for the benefit of the consumer have replaced the old attitude of *caveat emptor*. Various methods have been adopted but they are all based on regulating maximum retail prices, directly and by fixing maximum profit margins and percentages of profit. As noted by many observers, and effectively by an Adviser on Marketing (6), such controls cannot be strictly enforced and it is impossible to make them sufficiently flexible to encourage the production virtues of improved quality and evenness of supply in time. It must suffice here to say that the marketing side of commercial agriculture is not in a satisfactory state, being as it is costly, wasteful and very beneficial neither to consumer nor to producer judging by a great number of local statements.

The local market for livestock products is very different. All milk (7) legally sold is bought by the Milk Marketing Undertaking which in practice accepts any quantity of milk delivered to the collecting depots dispersed through the Islands. There is a tendency to restrict goats' milk acceptances during the summer period of glut by relating summer and winter ratios. Many producers still have written contracts but more important than individual arrangements is the negotiating power of the K.M.H. (the union of milk producers already cited) which incorporates about half of the 600 or so registered producers in the island of Malta. The fixed and scheduled prices paid to producers bear no real relation to production costs since these are not known but rather result from M.M.U.-K.M.H. negotiations and political and welfare decisions by the Government. The M.M.U. takes full risk over wastage and excess production of liquid milk and processed milk products, but is partly able to offset losses by trading profits on imports of dried, evaporated and condensed milk which sales it handles. The M.M.U. now distributes all legally sold liquid milk, as well as its own milk products, and retail prices are fixed by announcement. In 1955-56 the result

1: Bowen-Jones et al. K-5 (1955-1958) 1961
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was that gross financial loss totalled £124,000 representing an equivalent subsidy to consumers of M.M.U. products, while, if profits on imports were subtracted the figure would rise to over £200,000. The commercial aspect of milk marketing is thus completely artificial and dominated by welfare policies. Price policy, even so, has not been powerful enough to even out the immense seasonal fluctuation in production of goats' milk, roughly half the total, and the smaller but still considerable fluctuation of cows' milk.

Meat production is rather more crude. The Government abattoir slaughters all the horned cattle, most of the swine and a considerable proportion of sheep and goats. The commercial transaction between producer and butcher is usually direct. Here once more the small scale and the unspecialised nature of meat production controls all else. The 1956 Census of Agriculture recorded only nine specialist cattle breeders and 94 breeders of swine as compared with over 700 engaged in sheep and goat breeding (in roughly equal numbers). Licensed importers bring in the store cattle which are then usually sold to non-specialist farmers. Feeding standards are as low as with milch cows. There is little incentive to improvement because of the low standard set by the widespread practice of milk producers selling old and diseased stock for butchering. Pig meat and store-bull meat do command a premium but, while some 15,320 horned cattle were slaughtered in 1957-58, the average import rate of stores is only some 3,000. In the same year, 5,000 sheep (of the indigenous poor breeds) and 8,400 goats (mainly those useless for milk production) as well as 7,800 lambs and kids, were slaughtered. The commercial side of meat and, for that matter, hides and skin production, like that of milk, can only be improved as and when the arable sector of agriculture is further developed.

Lastly, we must refer to exports. For some years, the most important exported agricultural product has been the spring crop of potatoes. Some general points concerning the production and sale of potatoes have already been made (Chapter VII, pp. 205-206), but one or two points need expansion here. The main market for pseudo-early potatoes grown in the Mediterranean (harvested in April and May), lies in North-West Europe. During the earlier part of this century, Holland, Belgium and Germany were the most important buyers but, of recent years, the Arran Banner variety, which yields well as a pseudo-early in Malta, has only found favour in Glasgow. By 1955 this dependence on a single main market was appearing dangerous and since that time, as noted by Haesler in 1957 (8), more heed has been taken of consumer demand for other earlier varieties, yellow rather than white fleshed, such as the Eigenhemer. On the marketing side, some important problems remain. The virtual absence of good civilian port facilities and the dependence on lighterage puts up freight costs and discourages shippers. The middlemen and wholesale handling of produce for export is not above reproach while the only worthwhile markets expect good and consistent quality of graded merchandise. Here the deficiencies of even the most commercially sophisticated part of the community can partly negate improved efforts on the part of the producer. Standards set by the home market tend to affect the services rendered to foreign markets and before the latter can be expanded, the former will have to be improved. There is one sector in which a separate break-through has begun. Air freightage of high value for bulk merchandise (which does not include potatoes) can make distant markets accessible to medium-scale individual producers. Thus flowers, plants and seeds are to some small extent being traded by a few growers sufficiently skilled to bypass the mercantile system. This cannot be done by all but it might encourage emulation.

The whole of the marketing organisation is of course organically associated with production and the commercial aspects of production need consideration. One of the first points that strikes an observer in the Islands is that the production of the different commodities is altogether too concentrated in time. In the case of milk, a traditional organic cycle imposed by crude goat husbandry imposes great financial strains on the centralised agencies. With crops it would seem that traditional fear of risk-taking, rational enough in a peasant economy but antithetical to the whole nature of commercialism, is now hampering

Such dry land farmers need about 20 *tmien* or more of cultivable land in order to make a reasonable living by rural standards. They and their families are necessarily expert in traditional ways of cultivating a considerably range of crops. Most of them rely on home raised seed except for spring potatoes and very few of them need very much liquid capital. Under normal conditions there is no debt problem. Production of individual items is generally small and, unless they have direct connections with wholesalers and retailers in nearby towns, they rely very much on the collection and sale of produce through middlemen. Their expertise is largely a matter of hard won experience of handling particular soils and crops and very limited in other ways. 241

4. THE SPECIALISED CROP PRODUCER

Lastly, there is the small group of highly specialised arable farmers. These are mainly producers of flowers or seeds and, at their highest stage of development, sell their high-value produce abroad. In practically all cases the only thing that distinguishes them from their neighbours is knowledge and initiative. The next example shows the type of indigenous development that is fairly easily attained. Here, and in the next stage of export marketing, lies one of the hopes for Malta's economic future and stability for Maltese agriculture. 247

H - This farmer and one adult son have 20 *tmien* of land in Region C XVII. Seventeen *tmien* are farmed under a relatively extensive cereal, sulla, catch-crop system, the remaining 3 *tmien* (Fig. 142) intensively cultivated under flowers - 'More profitable than normal Maltese agriculture'. A rotational sequence is practised of flowers, vegetables and a 'resting crop' of wheat or sulla. Vines are grown on wallsides. This farmer occasionally hires contract ploughing but normally hand-hoes 12 to 18 inches deep *Terra* soils and regularly and heavily applies sulphate of ammonia as well as green manure. Flower seed is imported annually from the U.K. and Holland, since Maltese strains are poor and diseased, and imported strains rapidly degenerate. Produce is sold directly in the relatively wealthy suburb of Sliema. A characteristic range of flowers together with some nine different vegetables at Easter would be:-

Alliums	Broom	Freesias	Larkspur	Narcissi	Tulips
Anemones	Carnations	Gladioli	Love-in-a-mist	Roses	Violets
Bluebells	Dahlias	Gypsophila	Marguerites	Iris	
			Marigolds		

5. MILK PRODUCERS

Another main group of farmers consists of milk producers. Differentiation between them is considerable depending as it does on the scale of production, the efficiency of production and on whether cows or goats are kept. At the lowest end of the scale come the virtually landless small-scale producers of goats' milk. These are the last survivors of a traditionally important class of urban herders who, before the control and pasteurisation of milk, delivered milk 'on the hoof' in towns and villages. Typical is case-study:- 234

I - This producer rents 2 *tmien* of land in Hamrun, half of which is used for domestically consumed garden produce. The remainder gives some exercise space and grazing for a herd of goats varying between 50 and 30 in number. This herd, which includes some 25 milkers, is over-fed on purchased fodder, and gives an average daily milk production ranging from a winter minimum of c. 30 lb. per day to c. 70 lb. per day in summer. Individual yields are low in quantity and quality and the farmer and his eight surviving children only survive in debt-ridden existence because of the M.M.U's guaranteed prices. He has no capital or equipment and the family's food consumption comes half from the garden plot and is further supplemented by food gifts from C.A.R.E. (an American welfare organisation). There is no real future for this type of livestock farmer.

Higher in the scale come the goats' milk producers who are able to rely on fodder from their own lands. One such, in Gozo, Region I, The West, may be summarised thus:-

234 *J* - With a holding of over 42 *tmien* in 26 plots, half of which is rough grazing, and with 2 *tmien* permanently under potatoes, this farmer is able to supply most of the fodder requirements of his 46 goats and kids, and 100 head of poultry as well as a few cows, sheep and horses. This land costs some £23 in rent. This farmer obtains a gross profit (receipts minus fodder costs) of some 14s. a day from sales of milk. At this level he, like many of his type, is aware of the crude economics of the situation and of the need for relating feed to livestock needs. Even so, readiness to experiment is confined to those sectors in which the farmer is able to base production on traditional knowledge and his own and family's uncosted labour. In Gozo, remoteness from the main milk market in the Maltese conurbation strengthens the general herdsmen's reluctance to use relatively novel milch cows.

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Farmers who are mainly producers of cows' milk are, *ipso facto*, economically more sophisticated than goat herdsmen. Even so, the range is considerable, particularly great since most of these 'dairy farmers' also rely on arable farming to a varying extent. Thus case-study:-

K - is of a working partnership of two friends who keep some 40 cattle in Regions C XX b, Luqa-Zejtun and C XX e, Delimara. Untypically, they hold some 100 *tmien* of land, much of which is wasteland grazing on Defence Department land. The complexity and obscurity of their claims to much of the land reflects the rather unorganised pattern of production. Since they have land, they grow the standard cash-crop - potatoes - and vegetable crops for domestic consumption. About two-thirds of the cultivated area is given over to fodder crops - wheat, barley and sulla. This, together with a truck-load of prickly pear each day and cake and beans fed to capacity, suffices for the cows. The cultivators' answer when questioned on production costs is *'Min jaf?'* - 'who knows?', and they are not at all convinced of the need for balanced feeding. Cows are served altogether at the season which would be suitable for goats so that production varies seasonally with a spring and early summer maximum of c. 50 gallons daily and a midwinter negligible minimum. This of course is in inverse relation to the Mediterranean plant growing season and, as noted earlier, accentuates the seasonal fluctuation normal with goats' milk. Significantly, the families drink goats' milk in preference to cows' although some of the former is sold. Such farmers, although operating on a fairly large scale, are almost perpetually in debt and rarely have much capital.

By contrast one may find the type of producer already referred to on p. 629, case-study:-

L - This farmer, although with relatively few cattle, is an efficient and highly developed type by Maltese standards. The half of his cultivated land devoted to fodder crops supplies half of the fodder requirements of the 13 stall-fed cattle. The remainder, including beans and cakes, costs him some £1,000 per annum. Receipts from milk sales come to c. £1,350 per annum. This farmer, becoming interested in the possibilities of cattle-breeding, puts most of his not inconsiderable capital directly into the livestock. Arable crops, particularly potatoes and onions, bring in good gross returns but, as with fodder production, are becoming increasingly regarded as uneconomic. This in spite of the fact that the only financial records kept relate to milk sales, fodder purchases, land transactions and buildings. With farmers such as this, one finds an irrational blend of conservatism and a readiness to try new ideas such as artificial insemination and balanced feeding.

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234 241 6. MIXED FARMERS

Lastly there are the mixed farmers, which in Malta and Gozo usually means farmers who for one reason or another have neither become very reliant on the 'milk-cheque' nor are able to grow irrigated or specialised crops. These farmers, usually middle-aged, have little capital, a modicum of enterprise and reasonable dry-land but the lack of agricultural interest shown by their sons discourages much development. They tend to be opportunist in outlook and fairly

1: Bowen-Jones et al. K-5 (1955-1958) 1961
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efficient as judged by yields. This is the group mainly responsible for the fairly steady progress made during the last 30 years but their productivity is neither high enough for modern needs nor attractive enough to ensure family succession on the land. A typical example is a composite case-study:-

M - In Region C XVII, the Naxxar-Gharghur Hills, lies a holding of 40 *tmien* (Fig. 143). Two wells supply water except in high summer. The 60-year-old farmer and his wife live in a relatively new farmhouse, an older dwelling with byres now being used to house six Friesian cows, seven goats, a horse and a mule. The grown-up children have either emigrated or work in *'il-Belt'* and have no interest in the land. The farmer built up his herd in the period after World War II and would like to increase its size but realises that he could not handle any more stock. About 5 *tmien* of land is usually under potatoes, small plots carry vegetables for home use, and the remainder grows fodder. This allocation results partly from the swing towards milk production but also from the high cost of hired labour to work the land. Husbandry is fairly good but the farmer confesses his technical ignorance and has no younger generation on the farm to encourage him. He keeps no accounts since 'this is the way he lives'.

Many other examples of sub-types of Maltese farmer could be given, ranging from the highly organised syndicate of five brothers which practises successful mixed farming in Region C XVIII d, Siġġiewi but which, almost as a result, is highly resistant to change; to the fruit and vegetable farmers of Wied San Blas in Gozo (Region III, Northern). Those given represent a fairly comprehensive cross-section of the producers who, within their limitations, make a fairly efficient use of land resources. Unfortunately this is not enough. All but a very few are commercially limited to an appreciation of the local not very exacting markets. In no case have we found any appreciation of costing by profit but only a more or less vague knowledge of gross returns. Everywhere there is suspicion, not vicious or pathological but quietly ingrained. It is assumed that the only way to ensure fair purchase prices is personally to deliver the produce - even to the M.M.U. It is equally natural to be suspicious of bureaucracy - a not abnormal rural phenomenon - and also of the practical knowledge if not the learning of advisers. A great many farmers are also conscious of a helplessness, of being left behind by the cunning of the city. This too is a not abnormal country attitude but, seen in the context of the whole social nexus, it is dangerous.

Note: For a fuller consideration of some case-studies see P. K. Mitchell: 'Studies in the Agrarian Geography of Malta'; Part II, 'The Maltese Farm'. Report to C.E.R.C., Durham, 1959, and B. W. Beeley: 'The Farmer and Rural Society in Malta'. Report to C.E.R.C., Durham, 1960.

241 592 (a) with the labour of members of his family limited, in many cases, as far as the women and girls are concerned to casual assistance and to grudging work by his sons until they can find some paid employment away from the home farm, and

241 464 [461] [465] (b) with the high cost of non-family labour at between £1 and 30/- per eight-hour day where a member of the family would have worked from early morning until sundown. Moreover the supply of hirable labour is by no means great nor readily available and, unless a general economic collapse forces a return to the land, there are no indications of any improvement in the position. Rather is agricultural labour likely to become scarcer and more costly.

241 [461] The problem is considerably aggravated by the fact that as already suggested, the particular characteristics of Maltese farming demand an intensive application of manual labour, both in the maintainance of the more precarious fields as well as in cultivation. Something of the detail of this need emerges from a consideration of the timetable of the Maltese farmer both as regards the annual cycle of activity and the daily round of farm-work.

TIMETABLE

221 241 The timetable of the Maltese farmer is more diverse and varied than is at first apparent. It is convenient to distinguish the daily timetable proper from the annual calendar of events. Under traditional peasant farming conditions there appears to have been a much greater degree of uniformity but as farming has been 'commercialized' so has the range of variety increased.

175 178 221 241 The peasant field-tiller depended on climate, on the crop cycle and on the sun. The year's round of field-work a century ago is recorded in an 1849 "Calendario dell'Agricoltore" (B/355) which listed the major farm activities of each month along with short articles on subjects of interest to the farmer of the time. Many of these topics, such as silk, olives, aniseed, cotton, honey, almonds, and tobacco, would not merit such prominence in a modern version of the Calendario[21]. More striking still is the emergence, since 1849, of dairying and stock-rearing, which was scarcely mentioned in the Calendario but has more recently grown to first importance for a large part of the farming community. [234] [233]

178 241 Changes of such magnitude over the century can be expected to affect the routine of farm-work and of village and family life. In the mid-nineteenth century, Maltese farming was still very much more 'peasant' than 'commercial' and the change between then and now becomes clear when a

178
241 modern calendar of events is considered.

As random sample illustrations three farmers' accounts of their own work during 1957-58 are analyzed[22]. At least they reveal something of the variety that now exists between one farmer and the next.

241 (1) A full-time field worker (Case X) usually working
461 with his brother and a nephew and having some irrigable land.
221 An analysis of the routine of this man is given (Case X; E, v. Work Analysis) and, from the same material, Mitchell has made a detailed study of time/labour utilization (B/525). A summary of this, which is on the basis of the ten hours per day worked by each of the three men over the year 1957-8, is also included in Case X.

(2) The second example relates to an arable farmer mainly concerned with irrigated produce (Case XI; E, v. Work
[592] Analysis). This man is helped in the fields by his wife and family. The analysis illustrates the main features of this 'irrigated' farmer's year (although in the year studied there was an exceptional loss of time in the Autumn due to storm damage) and should be compared with (1) above. Irrigation accounts for about a quarter of the months May-July but occupies a mere two afternoons in the period November-February. Cutting and reaping accounts for even more time in July than does irrigation: by October plowing is the largest single item apart from "No work (storms)". In November, planting and sowing account for slightly more time than "collecting greenery" and is by far the main work of December (potatoes). General cultivation work occupies much of the next two months but pruning and grafting of vines is the biggest single item of February. The parallel between this and (1) is clear, apart from the special emphasis, on fruit - largely apples - in the former case.

234 (3) A Goats' milk producer with subsidiary cash-cropping
221 (Case II; E, v. Work Analysis) provides the third
461 sample study. In 1957 - 58 this herdsman spent all but thirty afternoons "grazing the goats" - on only one Sunday or 'festa' day did he not go out with his animals. This illustrates an important feature. While Sundays and Holy Days are normally kept free of field-work, work with animals has to be allowed. The herdsman is consequently much more tied to his farm than is the predominently arable farmer. He has a set daily schedule of feeding and milking the animals and cleaning out their stalls, etc., and can expect to have to adhere to this especially if he is working alone or with very little help. In fact the herdsman spends a considerable amount of his working year on

234 (i) the grazing mentioned,
221 (ii) cultivation of fodder crops,
461 (iii) tasks connected with the animals such as collecting milk receipts from the M.M.U., cleaning, building and repairing accommodation for the animals, taking animals for slaughter or caring for them if sick.

And this emphasis is even more strongly seen among the increasing number of dairy farmers in Malta relying on cows rather than goats, as a result of current guaranteed milk sales.

The essential difference between herdsman and field-tiller is, thus, that animals require constant attention throughout the year and demand a much more rigid daily schedule. In (3), care of the animals directly or indirectly takes the greater part of every working day.

221 The annual calendar of activities reflects the way in
241 which the farmer's life and work are bound up with the
178 elements which govern his environment. The storm damage of
181 late, 1957, a serious economic set-back, was regarded
[931] fatalistically by the farmer. As soon as possible the normal routine of work was resumed and losses accepted with a great deal of talk but little action. The differences between the annual farming calendar of 1849 and that of today, illustrated by the above three examples, have included the extension of one crop at the expense of another. But even the reasons for such basic changes as the replacement of cotton by potatoes were not understood by the farmer. Cotton, for example, had become so firmly entrenched that only in face of impoverishment was it relinquished. The illiterate farmer suspects any innovation with which he is not familiar on the principle of "Better the evil you know than that you know not". He lives in a world where he sees himself fighting against forces over which he has no control. These include the climate, the Maltese economy, foreign trade conditions and, particularly, "them" - otherwise "Il-Gvern" or the Government and officialdom in general. He is also competing with his fellow farmers, but with the ways and wiles of these he is better acquainted.

241 This whole question of mental 'attitudes' to external
46 factors is held to be crucial in a study of illiterate
178 or recently-illiterate farming folk and is given further
181 consideration (Section 4). Suffice it at this stage to emphasize its importance in understanding the apparently illogical or irrational element which creeps into such a basic part of farming as the use of time. This becomes clear when a detailed cost-accounting of man/hours against productivity is made. Much of the work done is uneconomic in the sense that a great amount of time is spent with no

6:Beeley K-5 (1957-1958) 1959 EZ6 Malta EZ6

as a means of escape (Section 1).

The nature of the farmer's daily timetable depends on
(a) the type of farm-unit involved,
(b) the labour force available,
(c) location,
(d) season.

The farmer's day begins, on average, between 4 a.m. and 4.30 a.m. Extremes are found in the case of herdsmen who often rise much earlier - at 2.30 a.m. in the case of the Gomitan with a large herd of cows and only a limited milking labour force, or after 5a.m. or 5.30 a.m. for a herdsman whose farm is close to an M.M.U. collection depôt. The M.M.U. require herdsmen to deliver their milk at such a depôt for transportation to the pasteurizing centre at Hamrun or, in Gozo (after 1958), to the new milk centre at Xewkija. Before this latter addition to the milk industry, which is expected to cope with all the Gozo-produced milk in both pasteurizing and other processes, it was possible for a herdsman (Case I) in north-western Gozo to have to rise as early as 12.30 a.m. Generally, in the summer, reveille for the field worker might be an hour or so earlier than in winter so that he and, even more, the herdsman might expect to begin most of his working days in darkness.

The first event of the day for many country people is Mass. Some are regular attenders at one of the services between 4 and 6 a.m. Others, living further from a Church or having very heavy commitments of work, are less so. Field workers frequently take the Mass on their way to the work of the day (Case X).

Breakfast is invariably a very light meal of little more than bread and tea or coffee. It is taken sometime between reveille and about 9 a.m. and does not constitute a major halt in the work of the farm. Milk producers in most cases do not breakfast until the animals are milked or even until they return with their carts from taking the churns to the M.M.U. collection depôt in the nearest village.

The main meal of the day is lunch, taken somewhere between 10.30 a.m. and 12.30 p.m. and followed by a siesta of up to three hours. The herdsman's siesta is less flexible than that of the farmer for a 1 p.m. afternoon milking limits the time available. The milking over, the goat-herder takes his animals out to graze on a suitable patch of waste ground or stubble until 5 or 6 p.m. - or later in the summer (Case II). The milk is taken to the collection depôt with minimum loss of time especially in hot weather. In the case of the herdsman with cows there is clearly no question of grazing these animals (Case VI), except in one case (Case IX).

except in one case (Case IX).

The evening meal is generally smaller than the lunch although consisting of much the same elements - a thick stew ('brodu' or 'minestra'), along with bread, cheese, fruit, olives, tomatoes, etc. The consumption of meat and fish is in part governed by religion and in part by price and availability, though meat certainly figures much more prominently in the rural diet than formerly. The meal is taken soon after the return from the fields, about 6.30 p.m. and is followed, an hour or so later by the saying of a family Rosary before retiring for the night about 8.0 p.m. In Gozo there is a tendency for people to rise, eat, work and retire to bed rather earlier than in the larger Island and the smaller villages are usually dark and quiet by 7 p.m.

Apart, therefore, from external factors, such as M.M.U. collection or Church service timings, the daily timetable of the farmer and the herdsman depends to a large degree on his own volition. He knows what work is outstanding and can decide how and when he will do it within the limits imposed by the season, demands of animals, and so on. Thus, at a peak period of field-work, such as harvest, the farmer and his assistants may work on until the late evening - even through the night. During exceptionally heavy rains, as in October 1957, work on anything approaching the normal scale is, on the other hand, impossible and the farmer's day becomes one of doing what he can and complaining copiously meanwhile.

Midgo (B/516, p.236), writing in 1840, was impressed by the regular and assiduous labour of the Maltese farmer, even during the heat of the summer sun. "Il semble impossible, au premier abord, que le paysan maltais puisse résister aux chaleurs intenses de l'été. Cependant, au milieu des champs, dès le lever du soleil, on le voit, exposés a ses brûlants rayons, continuer tout le jour ses pénibles travaux. Il fait deux pauses: la première a huit heures; il se repose alors une demi-heure pour déjeuner; la seconde à onze heures; c'est l'instant de son dîner frugal, après lequel il se repose de nouveau jusqu'à midi en hiver, et jusqu'à une heure en été, tantôt à l'ombre d'un figuier, tantôt au pied du petit mur qui entoure le champ, la tête couverte d'un bonnet de laine, et le reste du corps exposé au feux du jour. Il reprend ensuite ses travaux avec la même vigueur, et ne se retire qu'au signal donné par la cloche de son village, c'est à dire au coucher du soleil".

The essentials of the daily round of the farmer have changed little since Midgo wrote except in so far as the tremendous increase in the importance of stock-rearing and

178 241 234 512 milk production (notably the growth in the number of dairy cattle in the Islands) has produced a new kind of operator in Malta, the cows' milk producer, for whom field work is secondary and then based primarily on the production of fodder for his animals and fruit and vegetables for the family.

512 527 796 [241] [234] Sundays and Feast Days bring a break in the routine. Work in the fields lapses but animals still have to be milked and fed. On festa days the whole village goes en fête and to Church. A procession of religious images, members of religious orders, priests, penitents and others to the accompaniment of fireworks and brass bands blaring through the bustle in the narrow streets and alleys fills the evenings of these not infrequent days of festa, fast and feast. These Holy Days and holidays have been the traditional breaks in the round of hard and heavy working [178] [575] days. The present younger generation still enjoys the merriment and processing of these occasions but the Band Clubs have lost for them something of their position of fifty years ago, and the cinema and bright lights of [461] Valletta provide alternatives and additions to the range of possibilities. The young villager of today wants time off not only on festa days but on ordinary working days as well.

527 796 562 575 The village festa is a communal celebration. Both men and women can share in the religious and social aspects. The Band Clubs established in the most villages during the past hundred years have however been solidly masculine (B/521). Other recreations of the farming community are 517 largely masculine pastimes such as shooting small birds, gossipping in the village squares and bars or at the M.M.U. collection depôt, watching the races at the Marsa course or arguing prices at the Sunday morning market 'Fuq il-Monti' 517 443 in Valletta. In Gozo the big assembly early each Sunday morning in 'It-Tokk', the main square of Victoria, is the scene of much buying, selling and talking by villagers from all parts of the Island who come each week to the capital [184] [494] but rarely visit other villages. The focal pattern resembles that in Malta, where the bus routes converge on the Urban area and Valletta but provide comparatively little inter-village transport (B/381).

178 241 Dissatisfaction with the way of life outlined above, whether for economic reasons (the small remuneration per man/hour of effort), or social considerations (the low status of the farmer, fisherman and other country people) is producing a younger generation anxious to escape if at all possible from following in the footsteps of their fathers and, thereby, accentuating the problem of how the farms of Malta and Gozo are to continue operating.

178 241 farms of Malta and Gozo are to continue operating.

It is hoped that some at least of the answer to this problem will come from co-operation and mechanization. The first implies the pooling of labour resources of individual farmers while the latter includes the whole range of developments leading to a replacement of hand labour, as far as possible under Maltese conditions, by machinery or by more efficient implements.

CO-OPERATION

241 476 Co-operation in field work between farmers is not new in Malta[23]. It is either permanent, where two or more farmers combine with each other to work a single farm unit, sharing profits and expenses, or temporary, as when two or more farmers share the use of a threshing machine at harvest.

An example of the permanent type is a case (Case VIII) where five brothers work one farm-unit as a team with one of their number being something of a primus inter pares. This [234] is an efficient and profitable arrangement with a substantial income accruing from the herd of some thirty head and the 70 tmien of land worked by the partnership.

Another case (Case XI) is that of two unrelated farmers working one farm-unit as partners after a lifetime's friendship. So completely are their resources pooled that it is not always clear what belongs to the one and what to the other. With their respective oldest sons (teenagers) these [233] [234] two men operate a holding of some 100 tmien and have in recent years joined in the change-over from goats to cows. Their joint herd now numbers some forty head, but as an economic unit is in a much inferior position to that of the first example.

A third example (Case X) shows two brothers working the fields held by them together but maintaining clear distinctions as to which brother owns which plot. This association has also endured for decades and now includes the full-time assistance of the oldest son of the brother.

An example of a temporary association is that where two or more farmers combine to thresh the grain of each man in turn, six being the optimum number for a threshing team which normally includes the owner-operator of the hired [178] threshing machine himself working as one of the team. In the days when the traditional threshing floor with the mule and hand-winnowing was the standard method of threshing (as before the 1939-45 War) different farmers would also join and help each other at the harvest. (Today this threshing floor method is confined to cases where a long straw is required.)

000 Direct hiring of implements from a contractor as against

407 474 with the setting up of co-operatives which would make available to the farmer the services of a heavy tractor and deep-plow on hire as required and would enable the very small-scale farmer and the part-timer to hire the smaller type of cultivating machine at low cost in cases where he does not wish or cannot afford to purchase his own cultivator.

SUBSIDY and GUARANTEE

435 241 654 During the 1939-45 War the Maltese Government offered farmers in the Islands very high guaranteed prices for produce handed in to the collection centres in each district. Farmers enjoyed for a brief period prosperity they had never known before and were able to build up often considerable financial reserves (Cases VI, XII).

434 435 241 654 Following this precedent the farmer today, under quite different conditions of competition from abroad, demands a guaranteed income for the work he expends on crop and milk production. He insists that responsibility for this subsidy and guarantee falls, as in war-time siege years, on "Il-Gvern", the Government. He overlooks the fact that his produce cannot in many cases hope to compete with foreign goods on price. He is in fact not concerned as to who buys his produce so long as "Il-Gvern" organizes its export and marketing and gives him a substantial return.

654 The Government, for its part, realizes the difficulties which the farmer in Malta and Gozo has to face and is thus confronted with a choice of policy. Should it favour the consuming Maltese public by giving them the cheapest possible foodstuffs (which would often mean imported goods rather than Maltese home produce) or should it protect the farmer by subsidizing his profit and guaranteeing his sales - at least in part? Official policy has of recent years tended to do both these things. The ration of basic commodities (bread, sugar, farinaceous paste, and butter) allows everyone in the Islands to obtain a part of the food they consume at low, subsidized prices, over and above which they are at liberty to buy on the open market.

The aid-to-farming programme is still more recent and is by no means yet old enough for all its ramifications and possibilities to be clear. So far it has included four main types of help to agriculture.

234 654 (a) First there is the guaranteed price to herdsmen for milk (of adequate fat content) supplied to the M.M.U. This varies slightly with season and there is a difference of a few pence between cows' and goats' milk. The average of some 5/- or 6/- per gallon to the producer amounts to some 8d per pint produced. Now the M.M.U. sells

234 654 pasteurized milk at about this same price to the general public, regardless of the administrative, collection and pasteurization costs involved and the losses on surplus milk wasted. The subsequent deficit is born by the Government exchequer and may therefore be regarded as a Government subsidy to the milk producer. Its effect in the past few years has been immense in that it has encouraged herdsmen all over the Islands to increase their production to the maximum at the expense of arable cash-crops (Cases I to IX).

232 654 (b) As part of the general policy to improve farming in the Islands and, at the same time, to eradicate certain livestock diseases the Government has made available to herdsmen an exchange scheme whereby they may exchange diseased animals for newly imported stock. This has also included goats, some dozen of which could be exchanged for a cow. Along with this stock improvement policy has gone official limitation on the number of animals entering the Islands since the present overstocking is regarded as undesirable. Farmers have however not been slow to find ways round such limitations - one popular method of acquiring a cow having been, for example, for a farmer to buy in weak and ailing goats and effect an exchange of these for a healthy imported heifer.

654 (c) Of considerable help to the arable farmer as well as the herdsman has been the programme of 'Loans and Grants' ('Self u Donazzjonijiet') by the Government to farmers for the purpose of making capital improvements in the farm and its operation. The low-interest loans have been particularly popular and have already enabled many farmers to buy, for example, their own rotary cultivators (Case II). One important limiting feature in these loans has been the ignorance on the part of many farmers of the system and the suspicion felt by others of something new and not clearly explained.

(d) Of particular concern to the arable farmer have been the various distributions of free or subsidized seeds, potatoes, tomatoes, etc. In some cases the aim has here been to popularize some new departure from custom such as a variety of early potato new to Malta or to introduce farmers to the 'Balanced Ration' ('Ghalf Bilanċjat') experiments of the agricultural authorities.

242 654 (e) In this same category of aids to farming comes the recently-formed Agricultural Advisory Service, which has itself been responsible for many of the new moves mentioned and also for the series of public lectures to farmers (Section 4), which have been part of the effort to improve farming in the Islands by providing an up-to-date research

242 and information centre to which the farmer may turn for
654 advice and material help. Much discussed by the farming community in 1958 were the plans for a proposed artificial insemination centre to help in the improvement of stock in the Islands along with the provision of an efficient stud (Section 4). The early stages of the Advisory Service are outlined in B/252.

178 Thus a lot has been done and a great deal more said
241 about farming in Malta and its improvement and modification
654 to bring it more closely into line with present conditions
181 both in Malta and abroad. The farmer's characteristic conservatism has to be overcome at every stage (v. Section 4)
[234] but where he sees a clear prospect of quick profit he is not slow to move. The outstanding example of this is the guaranteed milk sale through the M.M.U. which, in the space of a few years, has produced a revolution in dairying in the Islands.

433 The herdsman is not concerned with an increasing milk
654 surplus in the Islands as a whole. While the guarantee
234 remains he will continue to put every effort into selling more gallons each day and to subordinating cash-cropping to fodder production in his fields (Cases I to IX). It is certainly keeping him in farming but it is not, apparently, having the same effect on his son.

SECTION 3 : The Farmer and Living Standards

MONEY

433 In the early nineteenth century the Maltese farmer was
434 a 'peasant' in the sense that he was engaged in small scale
178 subsistence farming with the help only of his family.
[175] Economically and socially he saw little beyond his family, farm and village. There were very few wants which could not be supplied at home, or at least within the village. In 1958 one heard of a now almost mythical Maltese countryman of a hundred years previously whose annual expenses in terms of money totalled 6d : 3d for paraffin and 3d to have his horse shod! Today, the farmer who spoke thus of his predecessor receives about £300 for the milk which he sells each year (Case I) as but one item in a present annual turnover of several hundred pounds which characterizes modern 'commercialized' agriculture in Malta where the farmer produces for sale. He still provides much of the food for his family but he is no longer a peasant.

178 Thus the place of money provides a basic distinction
436 between the present 'commercialized' position and that which
437 prevailed under traditional peasant farming. A century ago money and financial transactions in general featured only

178 (the guaranteed price system for milk sold to the M.M.U.)
154 has had a similar effect. It has encouraged the farmer to
[234] turn to milk production and to increase his herd to the maximum (Section 2).

178 Briefly therefore, the position is that the farmer in
511 Malta and Gozo is now faced with a variety of factors
434 tending to make him money conscious to a degree unknown to his grandfather - who spent the 6d per year already mentioned. These factors basically underly the complex of socio-economic changes which have brought and are bringing improved living standards, "emancipation" and a greater range of demands:

(a) In diet, clothing, recreation and 'luxury' fields the farmer is demanding more than before, and this means money.

(b) The traditional pre-occupation with saving has been diverted towards the saving and investment of money rather than the accumulation of kind. Dowry is one example.

(c) The raised circumstances of the farmer have made him anxious to own his farm, and especially his house and (with the recent emphasis here) his animals.

(d) Anxious to get the most out of his holding within the present commercial system he is keen to develop his farm by acquiring machinery (with possible help from a Government loan) or by making some capital improvement. Suffering from shortage of labour, he wants to be able to pay hired farm labour the high wages demanded. His own children work away from the home farm.

[464]

[722] (e) The artificially distorted market conditions in siege and war-torn Malta between 1939 and 1945 put the farmer in a commanding financial position, which he continues to regard nostalgically as a Golden Age of Maltese farming. He has never fully been reconciled to his now changed position.

DEBT

178 Thus, where the peasant farmer of a century ago saw in
434 his farm the means of providing for the various needs of
[471] the family, the modern farmer in Malta regards his holding, his animals, and equipment, as the means whereby he can make the money which he needs to buy more new items, to expand
[184] his property and to build up his capital reserves. This is the picture as it would be ideally and as it is for a very small section of the farming community: one of the major problems of Maltese farming today is that it is by no means the position among the great bulk of the rural and farming
178 population of the Islands. If, having observed the present
426 position of money and the demands upon which it is based,
434 one turns to a more detailed examination of the financial status of the Maltese farmer the true nature of the problem emerges. Far from acquiring the money which he expects,

6:Beeley K-S (1957-1958) 1959 EZ6 Malta EZ6

be suffering from economic near-strangulation because the working of his farm-unit is linked with a fluctuating but permanent element of debt. This is because the factors mentioned above as producing the need and demand for money are operating, but the farmer and his farm-unit are unable to hold their own in the present agricultural economy of Malta; this in spite of the artificial boosts of Government loans, guaranteed prices, free gifts, agricultural development schemes, information services, etc.,(Section 2).

178 434 There is a range therefore between the farmer who is proving able to advance financially and he who is not, even to the state of impoverishment. The problem of the latter may be considered from two view-points, the economic and the social. Economically, the difficulty is clear. Many farm units as they exist today cannot hope to provide an income, after expenses have been met, which will support the family and allow of expansion or even maintainance of the unit. The social problem is less easy to define. It would appear that many characteristics of the traditional peasant farming system of subsistence and independence of each farm unit still remain beneath an often thin veneer of [212] commercialization and modernization. This is related in large part to the lack of education of the farmer himself. The farmer of today in Malta is an old man and ageing who has been but little affected by the developments in education, in its widest sense, which are turning the ambitions of the present younger generation of the farming community towards the towns and towards non-agricultural pursuits. At heart, the present Maltese farmer is still in very many cases thinking as a peasant, isolated and independent, in a farming system now essentially commercial, competitive yet inter-dependent. Financial profits and losses now rule his life but the farmer is, in a disturbingly large number of cases, partly unable and partly unwilling to adapt himself and his farm to the new conditions.

178 234 434 426 Something of the effect of the both the economic and social aspects of the problem may be gathered from a study of a number of sample cases:

(a) A goats' milk producer, living just within the boundary of the Urban area of Malta (Case V), operated during 1957 with a persistent debt on the maintainance of his animals, the basis of his livelihood. During the year, the milk production of his herd varied between 70 and 30 lbs per day. This was sold for the official guaranteed prices and to this extent may be seen as a constant element. Produce from the tomna of land held by the [451] farmer was used in the home but made only a minor contribution to the food budget. This man keeps no accounts of the costs of maintainance of his herd and profits therefrom. He is operating in a perpetual state of debt. A table of

178 his income from milk sold and expenses on fodder during
234 nine months of 1957 (Case V, Summary) illustrates the
434 progress of this debt. He looks back nostalgically to
426 the days when his father sold milk from door to door in
[654] the Urban area and complains bitterly of his present poverty. Incongruously, however, he insists that he fully realizes that without the present Government guarantee (through the M.M.U.) he could not operate at all. He probably does realize this.

(b) Another case of operation within permanent debt is provided by two cows-milk producers who work together as a unit (Case IX) with three dozen head of cattle and a total area held of about 100 tmien used primarily for the production of fodder for the herd. They claim that the debt factor makes it impossible for them to organize their farm and herd as they would wish. For example, while they fully realize the profit to be gained by rearing calves and selling fully grown animals, they are in fact forced to sell even female calves (which they would otherwise keep) in order to pay instalments towards the cost of cows or to pay off part of the debt outstanding to the fodder merchants. This debt position makes them reluctant to take on any further loan commitments: nevertheless the Government loan offers at only 1% are definitely attractive, as a means whereby they would be able to increase the number in their herd and also mechanize their field-work without making their debt
178 position appreciably worse. Behind all this it is clear
234 that they are basing all their hopes on the guaranteed milk
434 price offered by the M.M.U. and they are therefore intent
654 on accumulating animals and thereby supplying the M.M.U with as much milk as possible.

They have no thought or care as to what might happen were the official guaranteed price to go, along with the subsidy which supports it. In fact they have singularly little appreciation of the total picture of which they form part and will be content to grumble quietly and
[212] ignorantly as long as the present artificial situation brings them a steady income. They are both illiterate (Case IX).

(c) An illiterate farmer and herdsman (Case VI)
178 keeps no accounts of the finances of his farm working.
434 The money of the household is "kept in one purse" from
454 which all expenses, farm maintainance and improvement,
234 household expenses and all 'extra' items such as the
654 provision of dowries and wedding costs, etc., are met.
[451] This farmer admits to having been able to save more than £1000 as a result of the 1939-45 War but observes that today they "have a hard job to earn the daily bread". He claims that the savings had all gone by 1958 - partly on improvements to the house but mostly on the purchase of cows as part of his grand design to join the hundreds of other farmers in Malta and Gozo striving to ride on the crest of the wave of the M.M.U. guaranteed price for all milk produced. It is held that this pattern is typical of Maltese farming, and particularly dairying, today. The main energies of the farmer are devoted to making as large a profit as he can while the artificially-supported market for milk is maintained.

178 (d) A literate part-time farmer (Case XIII) keeps
434 accounts of the working of his farm. His second employ-
241 ment brings him in over £5 per week for all but a few
[511] weeks of the year and at the expense of only a small amount of his time and effort. In a normal year he reckons to make an income of about £450 of which about a third goes in costs of seeds, transport and manure, etc. and a further £50 in hiring labour. On account of the steady income from his other job farming has something of the quality of a hobby, a pursuit to be followed

654 232 242 to have made its presence felt among the farmers themselves.

When a greater number of qualified personnel are available the Advisory Service and its various ramifications may go a very long way to improving Maltese agriculture and raising the profit-margin and therefore the living standards of the farming population. But in its early stages it has had to concentrate on the present farmers of Malta and Gozo who are, as has been emphasized, not only often illiterate but frequently near retiring age as well. The younger generation of farmers' sons, on whom the future of agriculture in the Islands will depend, have had to be overlooked. But if they cannot be persuaded to stay in farming the improvements accepted after great effort by the generation of their fathers will mean very little.

241 829 [575] [874] In Malta and Gozo there is nothing to compare with the Young Farmers' Clubs of the United Kingdom; nothing in fact to serve as a nucleus around which an enlightened younger farming generation might develop. Neither is there anything in the Islands of the nature of an agricultural college where young farmers might be trained. It is possible that the primary schools in rural areas might provide a means of contact between the agricultural authorities and the children of the farmers but the difficulties which would arise are clear. Nevertheless such an approach as this might do something to alter the attitude to farming which is one of the biggest problems facing the industry in the Islands today. If farming and other rural children could be shown that farming is no less respectable than the variety of alternative occupations it might persuade them to stay in the industry long enough to build upon the improvements now being introduced.

654 •234 As was clear in the case of the balanced rations for pigs mentioned above the farmer is not slow to take advantage of a financial subsidy. The major example of this is the recent growth of the dairying industry with the guaranteed price to producers for milk sold to the M.M.U. (Section 2). In short, official policy here has been to make milk production profitable for the producer but at the same time to maintain a low consumer price for the pasteurized product - at a level producing a loss the cost of which is borne by the Government. The totals [433] of milk purchased from producers by the M.M.U. reflect the rapid increase in this aspect of farming in recent years. Milk surpluses (partly losses) also increased markedly as did the percentage of milk deriving from cows rather than goats[41].

TABLE 3

Year	Purchased by M.M.U.		Surplus		Percentage cows' milk	
1943-44	510,000	gallons			27	
1948-49	776,000	"				
1950-51	1,298,000	"			35	(1951)
1952-53	1,795,000	"	99,000	gallons	44	(1951)
1954-55	2,390,000	"	275,000	"	48	(1955)
1956-57	3,542,000	"	391,000	"	57	(1956)

A consideration of Cases I to IX and XII (Section 6) shows how this official support for dairying in the Islands has made herdsmen in the Islands desperate to benefit from the guaranteed milk market. Many have greatly increased their herds and withdrawn from other aspects of their farming in order to concentrate on milk production. Removal of Government support would have serious repercussions (Section 2) but, meanwhile, the herdsman is well satisfied with his steadily increasing income. The attitude of mind which permits a herdsman to develop a particular aspect of farming on this basis is significant. Clearly he has little awareness of the artificial basis of the position or, if he has, he is poor enough to take advantage of anything likely to bring a ready return whatever the long-term limitations may be.

Following the same pattern it would seem that if the farmer can be persuaded, for example, that he would increase the profit from his farm if he were to keep cost account records and modify his farm management accordingly he would be happy to do so. Similarly, as long as the balanced ration for pigs seemed to be doing his animals no harm he continued to feed it because it was subsidized and cheap. When, through mismanagement, the animals showed no signs of any improvement he returned speedily to the traditional feeding pattern. But this is a comparatively small question by comparison with the large-scale distortion of the dairying industry as a result of the guaranteed milk price - although the farmer does not think of the situation in these terms. There emerges, therefore, something of a moral obligation on the part of the Government to maintain the situation which a subsidy or virtual subsidy, as in the case of dairying, has produced.

Just as the farmer thinks only a short way ahead in time as far as the management of his farm is concerned so are his notions of space restricted. Earlier in this Section it was observed that he is aware of little beyond Malta. Thus it is difficult to make the farmer appreciate the intricacies of the export market for Maltese agricultural produce[42]. The fact that Maltese produce for export

654 (b) to encourage the members of the farming community to remain in their villages and in the industry.

654 234 (9) Following the official policy, outlined under (8) particularly that relating to dairying in the Islands, and the limited and short-sighted outlook of the average Maltese farmer (v.6), an irrational emphasis on milk production has emerged in recent years (v. Section 4). The dairy industry has grown to unprecedented size in the Islands and many herdsmen have seized eagerly upon the guaranteed price for milk sold to the M.M.U. as a source of a steady income. The fact that the dairy industry as a whole is over-producing and the continuation of the present conditions depend on a virtual Government subsidy does not deter them from concentrating all efforts into milk production to the neglect of other aspects of farming.

654 178 (10) The official policy, outlined in (8) and (9), seems likely to fail or to come near to failure on two main accounts (Section 4):

(a) the difficulties facing current attempts to pursuade the farmer to accept new schemes, crops, equipment, methods, etc., and arising from

(i) the outlook and attitudes of the farmer as discussed in (6),

[208] (ii) the use of unsuitable means of propaganda by the Advisory Service and others at present attempting to pursuade the farmer to accept new ideas and methods which would bring him cheaper working, a better profit and, thereby, contentment.

(b) the fact that the policy, outlined in (8), is directed, naturally enough, at the present farmers. This generation, however, illiterate and conservative, and with an average age in the late fifties, is, in the long-term view, the wrong one.

The present younger generation in the farming community, whose literacy and awareness of the world beyond the village make them educable and more responsive to new ideas, are the individuals towards whom official effort should be directed if Maltese agriculture is not to be lost by default. Nothing, however, included in official policy (up to December, 1959, is aimed at them (there is nothing resembling a young farmers' club in the Islands and no institute or college where agriculture can be studied).

241 178 The younger generation is in fact, on account of the whole complex of technical, economic and social reason (the strenuous work, the insecurity and the low social status involved) discussed in the four previous Sections, anxious to escape from farming as fast as opportunity to do so emerges.

The problem is clear, and its solution one of action.

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241 An F.A.O. report on investigations in Malta and Gozo observes that "Progress in agriculture is fundamentally a human problem; it depends on knowledge and the intelligent application of knowledge" (B/243, p.9). Within the Islands themselves there is a certain awareness of the situation and
[181] particularly of the need for an official policy designed to develop the agricultural industry to the best advantage of the total economy of the Islands and to assist the farmers who "are perhaps the most hard-working, honest and God-fearing section of the community and the country will be the loser if it were to let them down" (B/387, p.7).

It must be noted that the position in Gozo is even more intractable than in Malta.

From work done in the field two major lines of approach to the problem of Maltese farming emerge:

(a) Development policy must be related to the present and future position of her only basic industry - agriculture - within Malta's total economy. In this context one feels that at present there is some over-emphasis on the parts rather than the whole, that is the individual farmer qua economic unit and on the means whereby he may derive increased profit from his present - generally uneconomic - farm-unit. It is too easy to discuss minutiae of policy which are "good for agriculture", rather than to consider either men in villages or the fundamental national needs.

(b) The long-term improvement of Maltese agriculture as regards both the national economy and the fortunes of the individual farmers depends on the personnel of farming as much as on policy imposed from above. Policies must be tailored to fit the varying capabilities for absorption among the farmers, from the potato-grower who cannot see why a certain variety of potatoe is not selling on the export market to the dairyman unable to comprehend the artificially distorted basis of the industry which provides his livelihood. Moreover, up to now few development plans have been aimed specifically at the future farmers of Malta, the young, literate generation of the farming community. Before they have all left farming and village society this generation must be made aware of the possibilities and potential of agriculture in Malta and Gozo.

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234 FOOTNOTE: While this report was 'in print' it was announced that the milk producers had decided to withhold deliveries to the M.M.U. (B/59, 17th November, 1959, p.4). They argue that the guaranteed price given them should be increased to take into account current production costs - especially of fodder. The fact that they appear to have overlooked the £370,000 paid by the taxpayer in subsidising the milk industry (1958) illuminates both the narrow outlook of the farmer and his failure to appreciate the uneconomic basis of his dairying industry today (v.9).

128 [226] PART 3. A note on the Fishermen of Malta and Gozo is included because the economic position of this comparatively small group is in many ways similar to that of the farming community itself.

*159 ●234 654 PART 1. Maltese Farming - Case Studies I-XIII

CASE I: Pawlu. (A Gozitan large-scale goats' milk producer with a considerable land-holding.)

Pawlu gives the impression of being one of the more prosperous of herdsmen in his native Gozo. He is currently concentrating his effort on his 46 goats and 2 cows and is typical of the many herdsmen in the Islands who are today profiting from the official M.M.U. policy of a guaranteed [435] sale for milk produced. He receives between 5/- and 6/- per gallon, according to season, provided only that the milk passes certain fat-content and other tests.

This is the background to Pawlu's present specialization on milk at the expense of vegetable and fodder production for sale, a specialization which enables him to run his farm as an apparently profitable concern. The vulnerability of his position is however evident. A drastic change in the official policy of 'subsidy by guarantee' would snatch away the basis of his income as it would that of the many herdsmen like him.

*159 55 423 [463] Pawlu's father was primarily a tailor, working a few fields in a part-time capacity. His grandfather had been a quarryman. In 1935, when he was thirty-two, Pawlu married the daughter of a farmer in his village. From that date onward he began to build up his own farm-holding - he had previously worked as a hired farm labourer. At his marriage he was given the tenancy of some land both by his own family and by that of his wife, land to which he added in later years plots taken over from other tenants together with some further land from his family. Some of the plots which Pawlu acquired he later abandoned, sold, sub-let or exchanged on account of small size, inaccessibility, distance, etc., and he also declined to take over the working of 16 tmien (which would have come from his wife's family on marriage) on account of the distance of the fields from the home. A statement of the holding illustrates some characteristic features of the Maltese farm - its parcellation, the small amount owned rather than leased or held on rental, the variety of owners concerned in the case of most of the plots, the types of sources from which the fields were acquired, reasons for the relinquishing of certain pieces and the scattered nature of the holding of twenty-six separate plots spread over a quarter of the Island of Gozo (B/525).

Pawlu's holding at Easter, 1958.

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Origin of TENURE	1958 T S K[49]	No longer held in 1959 T S K[49]
From own family on his marriage in 1955...	5-5-5	4-3-8
From own family since his marriage	7-4-5	
From his bride's family at marriage	5-0	16-0-0
From non-relatives, all since 1955	28-0-3	
	42-3-3	20-3-8

OWNERSHIP of land held by Pawlu.		Plots		Plots
Church (Cathedral (Mdina).....	3-4-0	5	16-0-0	var
Church (Gharb.....	1-0-3	4		
Church (Benefizzju (agent).....	4-3-0	2		
Civil Government.....	3-5-0	2		
Other farmers.....	4-0-0	2		
Sinjur (a Xewkija Baron).....	5-0	1	1-1-8	2
Owned by Pawlu himself.....	4-0	1	1-0-0	1
Sub-leased (4-yearly) from 8 farmers who hold on long lease, or own.....	24-0-0	var.adj.		
Military authorities.....	0		0	
No information.....			3-0	1
Notary (agent).....			1-5-0	2
	42-3-3		20-3-8	

The details of the 20-3-8 relinquished by Pawlu are significant:

Sub-let because of small-size and inaccessibility.....	7-0
Sold because of inaccessibility.....	1-0-0
Abandoned because of distance & inaccessibility.....	1-0-0
Option declined because of distance.....	16-0-0
Exchanged.....	1-2-8
	20-3-8

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On sixteen of his twenty-six plots of land Pawlu pays annually about £24 in rent. On average this works out at about 4 shillings per tomna for rough grazing land and £1.1.6d per tomna of cultivable dry (baghli) land. Pawlu himself receives an income of 5s 6½d per annum as rent for two small patches (totalling slightly more than a tomna) which he sub-lets. He himself owns the pivotal centre of his farm, and four sighan on which stands his house, cattle byre, coat shed, store rooms and small enclosures.

*159
●234
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[246]

Pawlu's present policy is to expand fodder production in order to eliminate much of the very high cost of purchased fodder. Along with this he is keen to acquire the use of rough grazing land for his goats where he can do so cheaply. The large block of this type of rough grazing which Pawlu acquired piece-meal during 1957 and 1958 makes the supervision of the animals easier than would be the case if he had to graze them in small fields adjacent to land carrying standing crops. Pawlu is cutting down the quantity of vegetables produced for sale each year since he is without any guaranteed market or price. He aims nevertheless to produce as much of the family requirements as possible.

[244]

159 The trend is clear from an analysis of the utilisation of his land holdings:-
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	1956			1957			1958		
	T	S	K[49]	T	S	K	T	S	K
House and adjacent roadway		2	0		2	0		2	0
Vines		3	0		3	0		3	0
Prickly Pear		3	0		3	0		3	0
Potatoes	2	0	0	2	0	0	2	0	0
Vegetables, other than potato(a)	6	4	0	4	3	0		4	0
Fodder(b)	8	2	3	10	3	3	14	2	3
Rough grazing - and shooting			0	12	0	0	24	0	0
Unused		1	0		1	0		1	0
	16	3	3	30	3	3	42	3	3

(a) mainly tomatoes and melons (bittieh and dulieh)
(b) silla, wheat (qamh), barley (xghir), mixed wheat and barley (mahlut), beans.

*159 Livestock
422 Pawlu's farm holding of slightly less than twelve
231 acres is large by Gozitan standards. So also is the herd which it supports. Late in 1957 he had some 40 goats and 8 kids, two cows, a sheep, one horse, and about 100 poultry. "Goats are easier to handle than are cows" (Pawlu). For him, as for most herdsmen in the Islands, the dairy cow is still something of a novelty, and an expensive one, requiring considerable capital outlay for both the animal and its accommodation. The single sheep is quite typical, being kept mainly for the popular 'rikotta' cheese made from its milk. The large poultry element is also becoming a common feature in Gozo, though disease takes a very high toll. Pawlu's one horse provides the motive power for the cart which for him as for the rest of Gozo is still the prime mover of goods and produce.

*159 Pawlu's income derives mainly from the sale of milk to
234 the M.M.U. This was also the case before 1958 when Gozo
434 finally became a 'closed' area in which unpasteurized milk could not, legally, be sold. Thus the herdsman's cry of "Halib, halib" ('Milk, milk') as he took his goats from door to door and milked them to order on the customer's threshold is heard no more. The churned milk from the farms is collected and taken to the factory at Xewkija - before 1958 it had had to make the long journey to the Hamrun centre. Apart from the unpasteurised fresh milk used by the family, Pawlu sells, and sold, the milk his goats produce to the M.M.U. He pays no labour, hired or family, and does not consider his own time as a cost factor. Some idea of his income is therefore obtainable from an account of his receipts from the M.M.U. against the costs of the fodder.

423 The amount of fodder bought in to supplement home
234 production varies. In the case of sulla (silla), particu-
*159 larly, Pawlu is forced to buy in a large quantity when his own crop is poor. His purchases of wheat (qamh) and

159 barley (xghir) fluctuate but cake-feed is all bought from
432 fodder agents. Milk production varies with season, being
234 at its peak in the Spring. The price given by the M.M.U. changes accordingly to the extent of a few pence per gallon. On the basis of an average feed programme one can get some idea of the gross profit margin on which Pawlu is working, the absence of any allowance for labour costs being noted.

*159 A sample feed programme with daily costs for one cow
234 yielding about three gallons:
43

	s	d
3 rtal xghir (barley-bran)	1	- 4
8 rtal cake.....	3	- 6
5 rtal sulla (silla).....	1	- 4
8 rtal beans (¼ tomna)....	5	- 0
1 basket prickly pear.....	1	- 0
½ basket straw.....		6
	12	- 8d

Selling the three gallons at 5s 6d per gallon (see above) brings in 16s 6d per day, leaving a profit on the one cow of 3s 10d.

A sample feed programme with daily costs for 46 goats yielding about ten gallons per day:

	£	s	d
3 tmien (48 rtal) beans....	1	- 10	- 0
1 tomna xghir (barley).....		6	- 0
4 bundles sulla (silla)....		5	- 0
Furrajna (green barley)....		5	- 0
	2	- 6	- 0

Selling ten gallons per day at some 6s per gallon thereby brings Pawlu a further profit of 60s minus 46s, or 16 shillings. This, together with the 3s 10d from each of his two cows, amounts to a net income of approximately 23/8d per day.

*159 Unlike most of his fellow herdsmen in both Islands,
156 Pawlu is fully aware of the relation between feed programmes
234 for livestock and milk yields (B/379). He does not share
232 the common view that "The more the feed the more the milk". He is also well aware of the economics of his situation as described above and, as seen, his aim is to cut the costs of fodder by producing more on his own holding and thereby increase his profit margin on milk sold. This is a most widespread feature among Maltese and Gozitan herdsmen today. But Pawlu goes further than most in that he is conscious of the need for a 'balanced diet'. Not only does he carefully regulate the types and quantities of feed which he gives but he also follows the latest researches of the Department of Agriculture, especially that of Haesler (B/252) and others working on this and similar topics. The average illiterate Maltese farmer tends to dismiss the statements and efforts of such experts as "No good for Malta, and

*159 156 234 232 useless in my district" but Pawlu, who has at all times in his life been conscious of education and a knowledge of things outside his village, is prepared to consider suggestions on their merits. This attitude pervades the working of his farm as a unit and has had important repercussions within his family. (v. Section 4).

*159 156 829 In spite of his own lack of advanced formal education, Pawlu has in fact an awareness of its importance which is still uncommon in rural Gozo. He is constantly stressing the need for education in its widest sense, both general and technical. He is anxious for his children to be educated to a standard far above his own, while, in the wider scene, he recognizes the importance of education for the farmer and farming. His attitude to the course of lectures for farmers (Section 4) is typical of the man. He observed that "attendances at the lectures have been big because the farmers are interested - they wouldn't go if they were not". The ideas put forward by the experts are weighed by the farmer and, if considered 'good ideas', are discussed at length in the villages or at the It-Tokk market on Sunday mornings. These lecture courses for farmers, and others like them such as the important McClemont demonstrations and lectures on dairying technique (Section 4), fail for Pawlu in so far as they do not lead to individual contact between specialist and farmer. No farmer would dream of making comment or criticising 'officialdom' - with which he naturally associates ventures like those of Haesler and McClemont[50]. "The Maltese back down much more easily than do the English in their relations with the authorities. In England you might complain to a Government Department and there would be argument for a day but in Malta such a complaint would mean petty victimization for years". The farmer blames "clerical inefficiency" in Valletta for what he considers has been the failure to follow up the McClemont or other recommendations but no farmer would seriously consider complaining in person to officialdom. They just argue and become increasingly bitter with their lot.

* 159 178 829 [554] [464] <u>Farming</u> for Pawlu means independence. He complains of the inferior social position which the farmer holds in Maltese society today and observes that the present generation of young people demand the means to enable them to equal the people of the towns in appearance, leisure and other superficialities. The old farmer with little formal education is not troubled by these notions. His life is the only one he can comprehend - apart from which his daily round leaves him little time to think. The youngster, on the other hand, is desperate for an eight-hour job with steady income and leisure time in place of unpaid field work with his parents.

*159 433

3	rotal barley bran	1s. 4d.
8	" cake	3s. 6d.
5	" sulla	1s. 4d.
8	" beans	5s. 0d.
1	basket prickly pear	1s. 0d.
½	" straw	6d
		12s. 8d.

- Sample daily feed for 46 goats yielding c.10 galls.

48	rotal bean	£1. 10s. 0d.
16	" barley	6s. 0d.
4	bundles sulla	5s. 0d.
Furrajna (green barley)		5s. 0d.
		£2. 6s. 0d.

[434] - Daily feed costs thus average £2.18.8 and the income from milk £3.16.6. Profit, making no allowance for labour costs is 17/10d. daily, varying slightly with milk prices.

*159 ●234 G. Husbandry.

(i) - Does not subscribe to the common view that "the more the feed the more the milk".
- Attempting to increase profit margin by cutting fodder costs, which he does in three ways:-
(a) By extending the area held under fodder crops. The cost of fodder makes this worthwhile even though it involves larger purchases of food for the family.
(b) By acquiring grazing land, a useful supplement to fodder crops.
(c) By improving feeding patterns to give a more balanced diet.

*159 241 (ii) - Land lies idle in the summer months since none is irrigated.
- Two rotations are in use,
(a) 1st yr: Wheat after manuring and thorough hoeing.
2nd yr: Sulla
3rd yr: Wheat
4th yr: Fallow
(b) 1st yr: Wheat
2nd yr: Sulla and Beans
3rd yr: Potatoes, Tomatoes, Melons after tractor plowing.
4th yr: Fallow

*159 43 829 H. General.

- Completely dependent on the sale of milk to the M.M.U. at current prices of 5/6 to 6/- per gallon.
- Commercially much more sophisticated than the majority of Gozitan milk producers, this farmer runs a profitable concern.
- Has shown himself willing to cut losses by relinquishing land which he cannot work profitably.

[454] - At the same time makes considerable effort to add suitable land to his holding.
- Atypical in avoiding dispersion of effort over a variety of minor activity and in high degree of specialisation. This specialisation, however, renders him particularly vulnerable to any change in policy on the maintenance of milk prices.

*159 234 CASE II: Ġużepp (A goats' milk producer with subsidiary cash cropping.)

Like Pawlu (Case I) Ġużepp is a herdsman. He has however fewer goats (25) and no cows as "there is no place to keep them". Accommodation is in fact one of the major problems facing him and thwarts his efforts to increase his herd and thereby his earning power. Late in 1957 some of his

*159 premises were deemed by the sanitary authorities to be unfit
● 234 for animals. He has no goat pens near his house but is prevented by the lack of capital from making substantial improvements in his facilities. Owing to shortage of space, he prefers to buy in fully-grown animals rather than [246] to breed his own, which would be cheaper. Fodder storage (he produces just enough sulla to feed his own goats) is a further problem and he tries to 'make do' with odd corners of often unsuitable space.

*159 241 433 Crop production is geared to the provision of fodder for the goats, together with the supply of vegetables for the family, and grapes (for wine), some tomatoes and other items for casual sale to local shops.

*159 434 The income side of his budget depends on the proceeds from the milk sold to the M.M.U. In August, 1957, he was getting about 16/9d a day for the milk sold. His grapes for 1957 brought him a further £66. His largest expense [427] is fodder (apart from sulla) and its price is a constant cause of grumbling and bitterness by Guzepp. Rents for 1957 totalled £35, that is about £1 per tomna for good land (generally red soiled 'hamrija') and 15/- for poorer, whiter ('abjad') soils. His cropping illustrates a common [241] practice in Maltese farming in that he tends to plant more [433] of a crop which has just had a 'good' season and thereby frequently suffers from glut conditions. Thus in 1958 he aimed to plant a large area to marrow (gargha baghli) because "last year's crop was good". In the previous year he had been unable to get all the potato seed he would have liked but, at the end of the season, was able to buy in potatoes very cheaply for the table because of the general glut in the crop which he had, as it transpired, fortunately avoided.

*159 438 443 Guzepp, like most farmers, is very critical of the great gulf between the price given by the pitkal and that paid by the consumer. In a small way he strives to avoid this by selling some of his produce directly in the local village, but this brings him only some £12 per annum.

*159 511 829 178 Expenses are few apart from food, clothing and a few extra items such as Church contributions. His bill for entertainment is practically nil and his children are not yet old enough to demand large sums of pocket money - which one foresees they will do. Guzepp is very anxious to enlarge his farm and his herd and to improve his accommodation. In this development one feels he is looking to the future support of his now school-age sons. Certainly the older of these seem at present to look forward to following in their father's footsteps. But it is clear also that Guzepp's own deep attachment to the land and to farming is

[R 86]

*159 443 fluctuation. In such a situation he would find fixed annual repayments on loans for development much more difficult to meet.

SUMMARY OF CASE II

*159 (A goats milk producer with subsidiary cash-cropping).

A. Land.

[423] [427] Rents 10 separate plots, all dry land, in the Qawra Region.
Several landlords: total rent including house (£8.10.0) £35 p.a.

B. Utilisation.

[241] [311]
- Attention devoted mainly to fodders: wheat, barley, sulla.
- Grapes, some tomatoes and a few potatoes for sale.
- Various vegetables for home consumption.
- Grazing on waste and abandoned land.

C. Livestock.

[231]
- About 25 goats: 2 rams and 23 milkers all over 2 yrs. old.
- 20 hens, 5 pigs, 1 mule.

D. Capital.

[423] [454] [412] [409] [426] [427]
(i) No freehold land.
(ii) Little or no liquid reserve.
(iii) Equipment: usual hand implements; no mechanical equipment until 1957 when he bought a rotary cultivator at £350 with a government loan to be repaid at £62 p.a.
- Hires tractor and plow at 15 to 25/- per tonna.
- Borrows spray from brother.

E. Labour. (v. Table 4: Analysis of Work Record, 1957-58)

[464]
- No permanent hired labour.
- Help from wife and children (8 children, all below 14 yrs. of age, 4 at school).
- Employs a vine-grafter at 25/- a day when necessary (150 vines can be grafted in one day).
- Pays friends and relatives £1 daily for help at grape harvest.

F. Production and Sales.

● [234] [43] [231] (i) 22 goats (Nov. 1957) yield 3 gallons of milk daily which sells at 16/9 (5/7 per gall.).
- Keeps only milkers as no accommodation for rearing.
- Female kids sold for breeding fetch 7/- each, male kids sold to butchers when 15 days old fetch same price.
- Buys 3 to 5 goats annually to maintain herd - price in 1957 £10 each.
- 5 pigs includes 3 for meat, 2 for breeding; piglets weaned after 40 days and sold a week later.

[245] [434] [244] (ii) Vine shoots bought from Govt. Farm at 28/- per 100. Grapes sold to vintners. Price takes no account of quality.
- In 1957 sold 30 qantar at 44/- per qantar = £66.
- Tomatoes, small quantities sold, but bulk of crop made into paste for home use.

G. Husbandry.

[245] (i)
- Much effort expended on vines. Pruned in January, when 2 yr. old shorts cut back.
- Grafting in February; new grafts produce small crop the same year.
- Sprayed, plowed (3 or 4 times) in May.

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[245] - Many stocks now 20 years old require replacement.
- No early potatoes grown "because of sea-spray".
- Sulla sufficient for his own stock.

[233] (ii) - Half of every working day is devoted to grazing
[461] the goats on waste and abandoned land.
- Fodder from his own sulla and barley but has to buy cake and beans, prices varying between £2 and £3 per qantar - expensive.

[241] (iii) - Manure from his own stock provides all his requirements and leaves surplus for sale.
- Uses 6 bags of sulphate of ammonia p.a., the only chemical fertiliser.
[231] - Pig feed costs 11/- per sack which lasts his 5 pigs 4 days.

*159 H. General.
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241 - Has a hopeful attitude towards farming but still expects a great deal of Government help in the form of grants, loans and subsidies.
- Claims that his children intend to succeed him on the land but they are young enough to change their minds.
- Willing to accept advice, but not impressed by experts who tell him either "things he knows already" or give him advice "which is sound but not applicable to Maltese conditions".
- Has only a very general idea of costs and returns. Takes no account of value of family labour.

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[434] - Basic income is from sale of milk (£300 in 1957) and
[234] grapes (£66) plus small quantities of vegetables (c.£12). Spends £100 p.a. on food for family in addition to his own produce.
[511] - Typical of farmer who is satisfied with his lot, keeps his family decently fed and clothed but spends
[454] little or nothing on non-essentials. He is anxious
[241] to improve his herd, accommodation and methods but his farm provides no financial surplus with which to do this.
- Continues to accept a standard of living far below
[511] that of his more sophisticated compatriots.

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TABLE 4. CASE II. Analysis of Work Record. 1957-58[a]

ACTIVITY	Aug		Sept		Oct		Nov		Dec		Jan		Feb		Mar		Apr		May		June		July		Year	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
Sundays and feasts[b]	6		5		4		5		6		6		5		6		5	1	6		6		4		64	1
"Business", miscellaneous	1				1		2				1		2		1				1				1		10	-
Grazing Goats.[c]		29		28		30		29		30		30		25		20		28		30		29		28	-	336
Collecting money from N.M.U.	1		1		2		2				2		1		1		1		2		2		2		17	-
Goats' sheds - cleaning			1		3		2	1	4		2	1	2		1										15	2
" " - building, repairing	3						9		1																13	-
Pigs, illness and slaughtering			1		1								1										1	1	4	1
Potatoes (Sowing			1								5														6	-
Potatoes (Weeding, hoeing															2		3								5	-
Potatoes (Lifting									6												2				8	-
Vines Pruning											12		3												15	-
Vines Grafting											1		4		2										7	-
Vines Hoeing, plowing, spraying					1	1							1	1	6	1	3		8	1	1				21	4
Vines Picking			6		2																				8	-
Tomatoes Planting out, hoeing															1				2				1		4	-
Tomatoes Picking	1		8		4		1																2		16	-
Wheat Sowing							1		10																11	-
Wheat Reaping																					11				11	-
Barley Sowing							3																		3	-
Barley Reaping																			5						5	-
Sulla Sowing	2																						1		3	-
Sulla Reaping	1												1		6		6						2		16	-
Sulla Binding(d)																	5						5		10	-
Marrows, Melons, Pumpkins,													1				1		5		2		2		11	-
Onions and garlic					1				1																2	-
Beans, carob and Prickly Pear(e)	5		1		1						2				1		3								13	-
Gathering greenery (haxix)													1	1	1	2									2	3
Plowing (unspecified): Motor -		2	1		5		2		1				4			1	2								15	3
" " : Wood Plow. and hoeing			1		2										3	7			1						7	7
Threshing wheat & barley - (f)																					5		3		8	-

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Table 4 continued.

ACTIVITY	Aug		Sept		Oct		Nov		Dec		Jan		Feb		Mar		Apr		May		June		July		Year	
	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm	am	pm
Manure spreading (g)	5		2						1												5		3		17	-
Repairing field storm damage					4		3						1												8	-
Other and unspecified (h)	6		2	2					1	1			1	1			1	1			1	1	2	2	14	8
TOTAL	31	31	30	30	31	31	30	30	31	31	31	31	28	28	31	31	30	30	31	31	30	30	31	31	365	365

(a) From work record kept by farmer's wife. (Translated by the writer): originals in B/5).
(b) No work in the mornings - goats grazed as usual in afternoon.
(c) Occasionally the children relieve Gulepp of supervising the goats' grazing.
(d) Including transport and storage.
(e) Hoeing and cutting.
(f) Including preparations for threshing.
(g) Including moving, spreading, turning and selling.
(h) Including 6 mornings when Gulepp washed clothes (wife's confinement), and others when weather was too bad for work.

CASE III : Nardu (A goats' milk producer)

*159 157 Illiterate and suspicious, Nardu typifies the most conservative element in Maltese farming for whom nothing new can be worthy of consideration. It is probable that no amount of lecturing, demonstrations of improved methods, or capital loans from the Government, would persuade him to change the ways he knows. The prospect of machinery does not impress him although he thinks of acquiring a rotary cultivator (at about £245). His observation is, when freely translated, "You can't teach an old dog new tricks" (he is aged 40).

*159 •234 [425] His father was a peasant with a few fields. Nardu's brother took over the family business and sold his share of the fields to Nardu, who also bought out the shares of his five sisters. He has since concentrated all his effort on his herd of goats, regarding his fields primarily as a source of fodder. During the fifteen months of study his herd varied in size from 34 to 50 animals. All the goats are of the local breed as he does "not like horned goats". He is more concerned with producing milk, under the current favourable regime of guaranteed sales to the M.M.U., than with breeding goats. Most of the kids born to his herd are sold for meat or for breeding to a dealer. Payment [426] seems to be made as money becomes available from the M.M.U every two weeks. Often however he admits to being up to two months behind with payment, settling one debt "when the next transaction is afoot".

In 1958, Nardu was talking at length about "getting two or three cows or calves". He "knows about cows from friends" but has not himself got the £300 capital necessary for two. Moreover he observes that "you can't graze cows" and their general upkeep is likely to clash with that of goats, especially where one man is working alone as in this case. There seems to be an element of prestige attached to the ownership of cows in a village such as Nardu's where the vast majority of herdsmen have only goats. Certainly his thinking is not guided by comparative costings of milk production from the cow and goat.

*159 434 [443] [511] Nardu's fields produce fodder and some food for the family so that they "will not have to buy in everything from the shops". He reckons to save between 15/- and £1 per week in this way. His wife spends £3 a week on purchased food and she looks back nostalgically to her youth when her mother spent some 30/- per week on food and clothing for a family with twelve children, while she has only three. The steady item of income in Nardu's budget is the money received from the M.M.U. for the goats' milk sold. Shopping is done in the local village but Nardu

(ii) Seed - Keeps grain and seed-potatoes back from harvest - usually least saleable.
- Buys sulla seed.

(iii) Livestock - Breeds goats from own herd and has no wish to try breeding experiments.
Replacement rate c.5 per annum.
- Feeding - no feeding programme and relies mainly on bulk green and dried fodder including rough grazing on wasteland and 6-7 bundles a day of 'haxix' - weedy roadside and wasteland vegetation.

H. General.

A conservative Maltese goats milk producer. More suspicious than most and not prepared to give much financial information. He has no idea of costs or profit and is only interested in sustained high milk prices.

CASE IV : Wistin (A large-scale goats' milk producer with some land.)

Like Case III, Wistin is a goat herder with fields supplying fodder for the animals together with some food items for the family. His herd is however much larger and in mid-1957, included ninety animals. He began goat herding with a few goats many years ago but the biggest increases have been in the past few years of guaranteed milk sales to the M.M.U. Now he aims primarily at profit from milk and is very much less concerned with rearing kids. He is a member of the Malta Milk Company (Il-Kumpanija Maltija tal-Halib) which, he believes, stands for the 'rights' of the milk-producing herdsmen. The Company demands improvements in the system including a higher price to the producer in the flush production period. It can scarcely be said to argue from strength, in view of the present market situation heavily distorted in favour of the milk-producer by Government policy.

The village became a "Closed Area" in 1955. This meant that Wistin could no longer sell unpasteurized milk from door to door - previously there had been some seven or eight milk-sellers like him in the village. Since 1955 he has been concentrating on his goats and on fodder production. He says he "likes goats". Certainly milking, cleaning and grazing the animals takes the greater part of every day (as in Case II, Wistin takes out his goats to graze and exercise practically every afternoon of the year). He is proud of his herd and "would feel ashamed to appear at the M.M.U. collection depot without a reasonable amount of milk for sale". In the flush summer season this is 20 gallons or more but drops considerably in the winter. Wistin strives to keep the milk production as steady as possibly however throughout the year because a steady supply of milk to the M.M.U. means a steady income for his family. He himself works on his fields only "when some spare time is

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available", and normally delegates most of the work to a labourer who receives 24/- for an occasional day's work.

His own fields produce only a small part of the fodder required by the herd however and Wistin buys in sulla and other fodder "as it is needed". He does not buy regularly nor does he keep any record of his purchases or sales. In December, 1957, he was spending about 15/- per day on fodder other than sulla, on which he had spent £120 during the previous year, 1956. But of costs of production of milk he has little idea. His own labour does not figure as a 'cost'.

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Wistin's family of eleven spends about £1 on food per day and eats potatoes and other vegetables and milk from the home farm to the value of a further 7/6d daily. The new demands on money are observed by both Wistin and his wife. She says that in her youth she "would never have dreamt of spending on clothes the money which her daughters are now spending". "In the old days, a girl went to the sea with her parents or on an occasional visit to Sant Anton - now they go to the cinema or to Valletta to buy shoes for the festa". One of the daughters is shortly to be married to a policeman and Wistin observes that the costs of the wedding and the dowry will be very considerable.

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Wistin is a true herdsman. He has no interests which would upset his heavy routine of work. He is "not interested in festas" and his only relaxation is an occasional visit to the races at Marsa when his children are on holiday from school and able to take the goats out to graze.

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His father was a labourer with the Services and had only a few fields, but Wistin began working for other herdsmen and then gradually built up his own herd to its present size, particularly in the past few years when, in common with many other Maltese and Gozitan herdsmen, he has ridden on the crest of the guaranteed-price wave. None of his children, however, shows any interest in goats and it is clear that both Wistin's wife and his brother-in-law (who has a half-share in the house occupied by Wistin and his family) are actively discouraging the children from planning to follow their father. Their main objection to herding appears to be the long hours and hard work entailed. Wistin is more than a little sad that the herd and farm which he has built up is likely to be broken up for lack of interest among his sons, for, as he says, "Once you leave the fields you never go back...."

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CASE IV : Summary.

(A large-scale goats milk producer with some land.)

A. Land.

6 tmien in the Naxxar-Charghur Hills region.

159 423 - 10 field plots in single block of 4 tmien (Rent £2.10.0.), and
- 7 field plots in single block of 2 tmien (Rent £3).
- Grazing ground on Defence Dept., wasteland.

B. Utilisation.

159 241 (i) At any one time about half the land - that of the deep-soil terraces - will be under potatoes with a few vegetables, and the remainder under barley and leguminous fodder.

311 (ii) The arable land tends to be neglected as a result of pre-occupation with livestock. The land is therefore deteriorating and as soil wash reduces soil-depth and water availability, peas and vetches are replacing less hardy crops. The most accessible fields in this hilly region are worked mainly to meet domestic needs.

159 231 234 C. Livestock.

90 goats including 75 breeders and 2 billies.
7 sheep for meat and cheesemaking.
This herd built up in farmers lifetime (c.50 years).

D. Capital.

159 423 (i) No freehold land.
(ii) A freehold village house joint possession of farmer and brother-in-law.

511 426 (iii) Receives C.A.R.E.[21] food gifts but the family standard of living is by no means poor. No debts except on intra-family loan basis.

E. Labour.

159 464 (i) Of the family of 11, two children are employed elsewhere and the remainder give occasional help with the stock and on the fields.

(ii) The fields are inaccessible to powered tools. Hired labour for fieldwork - c.15-20 man days @ 24/- a day including mule and implements.

F. Production and Sales.

159 43 234 (i) Goats milk sales range from February minimum of c.100 lbs. per day to July maximum of 290 lbs. per day. Annual sales of the order of 6,400 galls. @ average price 5/9d per gallon.
Gross income from milk sales c.£1800.
No accurate record of expenditure on purchased feed but total can be estimated as of the order of £500 p.a. Net income probably not more than £800 p.a.

(ii) Manure sold to arable farmers during first half of year with net profit of £18.

(iii) Home produced and consumed food and milk valued at c.10/- a day.

G. Husbandry.

159 23 (i) Livestock feeding of traditional pattern sulla, beans and cake is more carefully regulated in relation to yields than in Case III. Considerable emphasis placed on grazing and on stock exercising.

(ii) Herd suffers fairly severely from abortion and the kids from various diseases - 5 out of 16 in 1956, 4 out of 12 in 1957.
No prophylactic or remedial measures except more careful feeding. Sells sick and old stock for slaughtering.

(iii) Tries to extend period of maximum production by prolonging mating period but prefers to rely on "natural" periodicity rather than on producing off-season high yields. Has high standards for yields and has a good record in local shows for billies and breeders.

158 434 H. General.

An example of a high-class village goats-milk producer.

159 434 Present relative prosperity due to personal acumen, interest in stock and to guaranteed prices maintained by M.M.U. No great need for capital nor much possibility of accumulating capital. Utilises marginal land and family labour in a reasonably efficient way within local conditions. Will not be succeeded by sons, but represents a not unsatisfactory temporary response to the socio-economic conditions which have increased the production of fresh milk in Malta.

CASE V : Anglu (A landless, urban, small-scale goats' milk producer.)

Anglu supports a wife and ten children on the proceeds of the milk of some four dozen goats. His serious financial position shows no possibilities of improvement.

159 234 443 112 559 656 His father was a herdsman and sold milk from door to door in Valletta from a base in the defensive ditch or "fossa" round the city which, incidentally, earned the family the nickname of "Tal-fosse". Some sixty years ago the Government forbade the keeping of goats in Valletta and the family moved some two miles. They continued to take their milk into the capital however until pasteurization began in 1938[41] and Valletta became a "Closed Area" (v. Case IV). Since then Anglu has endeavoured to make a living on the milk sold to the M.M.U.

159 423 434 432 Unfortunately, however, he does not have a substantial land-holding which he can put to the production of fodder crops. He must thereby buy in all his requirements and spends some £400 per year on various types of fodder against a total annual income from the milk of £750. The only supplementary item of profit is a small quantity of prickly pear fruit sold from door to door near his farm. He himself holds a single tomna of cultivable land which barely supplies his own family with a few vegetables. The position of his farm within the urban area makes it impossible for him to obtain additional cultivable plots to put to fodder. They are both scarce and subject to pilfering in such a district. Moreover, the position far from grazing land is a serious drawback for, as he observes, "grazing improves the yield of milk."

159 452 Anglu's farm and family budget is dominated by DEBT (v. Section 3). The fodder has to be purchased from agents who will give credit terms. Other farmers would accept a smaller price but would demand cash on delivery. The bills for fodder and other items are settled as the money from the M.M.U. comes in (fortnightly, in most cases) but Anglu's account never shows a credit balance although it fluctuates from season to season. The table given in the Summary illustrates the progress of his debt over some nine months of 1957. It shows that on 1.9.1957 he still owed nearly £80 to one of his two dealers. This was not finally paid

159 241 **B. Utilisation.**

Most of the 1 tomna of cultivated land is permanently used for potatoes intended for domestic use. There are also a few patches of garlic, beans, onions and other vegetables. A few vines and prickly pear plants give some saleable produce e.g. prickly pear fruit sold from door to door fetched £10 in 1956.

159 23 234 **C. Livestock.**

November 1956:
45 goats, 7 kids, 2 billies, 1 horse, 24 hens and rabbits.
November 1956 to July 1957:
15 goats died.
July 1957:
50 goats.
September 1957:
48 goats, 11 kids, 1 billy.
November 1957:
25 milking goats, 10 kids.

159 42 **D. Capital.**

(i) No freehold property and little equipment except for cart.
(ii) In perpetual debt - probably between £60 and £100 behind in outgoings at any one time (v. Table 5).
(iii) Receives C.A.W.E. food gifts.

159 464 **E. Labour.**

No family labour. Of 10 surviving children, only two are above school-leaving age and they have non-agricultural employment.
- Hires no labour or machinery.

159 434 234 [433] **F. Production and Sales.**

(v.Table 5)
(i) Goats milk sales range from December minimum of c.20 lbs. per day to May-August maximum of c.70 lbs. per day (1957).
Typical annual pattern of usage in recent years:
2500 gallons sold to M.M.U. (@ average price 5/9 per gall.)
200 gallons sold privately (@ average price c.5/6 per gall.)
200 gallons used domestically.
Gross income from milk sales are of the order of £750 p.a.
Known expenditure on feed of the order of £400 p.a.
Net income probably less than £200 p.a.

[432] (ii) Sales of old milch goats and kids fluctuate with condition of herd and with disease. In 1957 10 diseased goats fetched 70/- each and 5 kids c.10/- each. Replacements cost between £8 and £20 for Maltese-Saanen goats in milk.

159 232 234 **G. Husbandry.**

(i) Livestock Feeding. Typical pattern:
50 goats receive 4 bundles sulla, 25 lbs. beans and 50 lbs. cake in summer. During winter more greens and less beans. Very little grazing.
(ii) Herd suffers badly from pregnancy and after-birth diseases and also from abortion. No prophylactic or remedial measures known to the farmer who, like most of his type, merely tries to sell sick stock for slaughtering and replaces with new.
(iii) No real control of lactations and most of milking goats are mated between September and February. He is reluctant to try summer serving since suffering losses in 1956. Regards yield of 2 lbs. per day as minimal.

H. General.

159 433 This farmer is typical of many herdsmen. Without capital or land he derives from previous generations of peripatetic herdsmen who milked their goats on the 'rounds' of urban houses. Now forced to sell his milk to a centralised agency (the M.M.U.) for pasteurisation he is protected from price decline during the summer season of over-production but prevented from obtaining extra profits and perquisites (often of rather a dubious character). Without capital he has to rely on credit terms for fodder purchases and therefore pays merchant prices which are higher than those of other farmers. A garden plot and the stock supplies about half the family's food, without which increment the family economy could not operate. There is no possible future except on a low level for this type of production.

159 231 232 CASE VI : Gaetu (A milk producer with a considerable land holding.)

In May, 1957, Gaetu had 9 cows and about 50 goats. During the year he sold some thirteen goats for the abattoir and of the eight kids born in the year several died "because they didn't want to go on living". In November of the same year three of his cows had to be killed, two of them on account of 'paralysis of the feet' (probably related to lack of exercise and perpetual stall-feeding). The goats got scarcely more grazing than the cows, being limited to the small yards adjoining the main farm building (v. Map 8).

The compulsory slaughter of the three ailing cows (for which he will be entitled to import replacements) has profoundly shaken Gaetu's faith in cows in general. He maintains that he "will put his efforts into goats for the loss of a goat means a loss of £10 against the £200 in the case of a cow."

159 234 [311] [246] [435] [464] Together with his adult son, Gaetu works 23 tmien of land, including some which is irrigable; and the emphasis in cropping is heavily on fodder production. But they still have to buy in a considerable amount of feed. For example in the 1956-57 winter Gaetu spent £175 on sulla, £99 for straw, and £15 on winter potatoes which were in glut. He feeds his animals according to yield which appears to mean that he gives more food and attention to the better yielding animals. "There is no profit in providing expensive fodder for poor-yielding animals." In fact, however, Gaetu has [451] very little appreciation of his profit. None of his labour or that of his son is counted as a cost and he keeps no detailed account of income and expenditure. He gets receipts from the M.M.U. but otherwise, being illiterate himself, feels "reluctant to ask anyone for a written [651] statement". Nevertheless he reckons to be able to put together some sort of balance sheet for the income-tax authorities each year.

000 authorities each year.

*159 494 234 434 [432] Gaetu has been a member of the Malta Milk Company since its foundation in 1949 and appears to attribute some of the present benefits enjoyed by the milk producer to the work of the Company on behalf of the member herdsmen. In January, 1958, he was selling some 3½ gallons of cows' milk and 5 gallons goats' milk to the M.M.U. but was also selling some privately each day, notably 12/- or 13/- worth to a nunnery "where my grandfather used to sell milk before me". Both his grandfather and father were herdsmen with goats but it was not until after the 1939-45 War that Gaetu went in for cows. He acknowledges saving some £1200 as a result of the War and says that most of this money went on the establishment of his herd of cows, together with improvements to the accommodation for the animals. [454]

*159 423 234 [427] Gaetu owns the house, which is several centuries old, and the farm buildings and rents the adjacent exercise yards from the Government. He has been keen to develop his own property since the war in order to qualify for the necessary permit from the sanitary authorities to keep his now greater number of animals. The Plan given in the Summary of this Case shows how the activity of both family and farm is concentrated in a small and compact cluster of buildings and rooms within the built-up area of the village. This is typical of the majority of farm units based on livestock in the Islands (v.Cases I & IV) but contrasts with some (v.Case II) in which the animals have to be housed at some distance from the family living quarters, a much less satisfactory position for the herdsmen concerned.

*159 342 351 423 The focus of domestic activity in Gaetu's household is the tiny yard, some fifteen feet square. Doorways lead off to the ground floor living rooms, to the goat shed and cattle byres and, through a large passage-cum-storage room, to the narrow alley way which links the house to the street. From the yard steps lead down to a cellar used for fodder storage and another flight leads up to the first-floor store-rooms above the kitchen and living room. A further staircase from inside the entrance room gives access to the first-floor extra bedroom. Gaetu's premises are typical with their intensive use of available space and maximum building development on the portion owned by the farmer himself but atypical in that he has been fortunate enough to acquire the adjacent exercise ground and small patch of cultivable soil with a reasonable prospect of continued rented tenure (v.Map 8).

159 423 551 [554] [621] The family has occupied the present house for several generations and has acquired the street name as a family nick-name (these nick-names remain the standard, even semi-official, mode of reference though not of address, when the Christian name is used, v.B/376). Gnetu is a prominent member of the community in his part of the village which now includes some non-agricultural workers.

*159 829 461 234 His outlook is rather more 'urban' than that of more isolated farmers, such as Case II. His adult son is an active supporter of the local football club and a regular cinema-goer. Gnetu himself is not concerned with such relaxation. He is devoted to his animals and especially to the goats which he will keep "because we have always had them". He takes an interest in farming and, despite his illiteracy, is fully prepared to listen to advice.

*159 829 544 234 178 He enters animals in shows at Ghammieri and attended public lectures organized for farmers in 1957 (Section 4). He thought the lectures and a film on dairying technique interesting but gave the usual verdict that Maltese farming suffers from special difficulties of its own which cannot be solved by what he believes are "foreign methods". He observes that "it would be an excellent idea to go to the trouble of washing ones animals regularly but the time and labour thus expended would bring no additional return to the farmer". He believes that the methods which he employs throughout the working of his farm are tried and therefore to be trusted although in more than a few cases some basic cost accounting (as suggested at the lectures) would reveal the patent weaknesses in his argument.

CASE VI : Summary.

*159 423 (A goats' and cows' milk producer with a considerable land holding.)

A. Land.

23 tmien of land, mainly dry, comprising 11 plots in 7 parcels arranged in two main blocks, one in the Ghajn Qajjet (Rabat-Dingli Uplands) one in the Blue Clay Basin on slopes of Wied Qlejgha. The former on soils of the l-Iklin Complex, the latter on good, sheltered Carbonate Raw Soils.

[427] All rented from a number of landlords, including the Civil government. Rent estimated at c.£30 p.a.

*159 241 B. Utilisation.

The emphasis is on fodder crops.

Crop plan, Feb. 1957.

Plot 1	Potatoes	Plot 7	Sulla
Plot 2	Sulla	Plot 8	Tomatoes, potatoes.
Plot 3	Barley	Plot 9	Tomatoes
Plot 4	Barley	Plot 10	Vines
Plot 5	Vetches	Plot 11	Sulla
Plot 6	Poor grass for bolding and grazing.	Plus wallside fruits and vines in several plots.	

*159 231 234 C. Livestock.

- 50 goats
- 2 cows, 3 calves, expecting to add 3 imported Friesians at c.£140 each.
- Chickens: buys unsexed chickens at 30-40/- for 50 in the hope of gaining egg producers. (Sexed females would cost 112/- for 50).

*159 42 454 [409] D. Capital.

- The farmhouse and buildings are owned, though the exercise yards are rented (v. Map 8).
- Seems to have a small capital reserve but is unwilling to spend this on equipment, which he prefers to buy with the aid of a govt. loan.
- Some £1200 amassed during the war has now been largely spent, in part on the house but mainly on purchase of stock.
- No mechanical equipment apart from a motor-pump bought for £68 in 1948.
- Tractor plows hired at £1 per tonna when necessary.

*159 464 E. Labour.

- No permanent hired labour, but two youths employed at 10/- each per day, all found, for c.3 months of the year, and occasional hire of neighbours' sons.
- Full time workers: the farmer and his married son: no female labour is employed.
- The farmer is the only one of 7 brothers who have remained in farming.

*159 43 F. Production and Sales.

- Goats' milk to M.M.U. varies between 5 and 10 galls. daily, plus c.7 galls. cows milk. Probable income from these sources well over £1000 p.a.
- Against this must be set considerable expenditure on fodder, records of which are not kept. Sulla may cost up to £300 p.a. Straw may cost up to £125 p.a. Beans and cake at £3.10.0 and £2.18.6 per qantar respectively.
- Secondary small sources of income include "private sales" of milk, sales of vegetables and manure.

These incomplete accounts suggest a modest profit, but this has not prevented disappearance of war accumulated capital reserves. (See D: Capital).

*159 231 234 G. Husbandry.

- Feeds according to yield. Large scale purchases of fodder necessary, despite quite careful attention to holding.
- Feeds vegetables (including potatoes) when these are cheap owing to glut; when this is done, bean ration is reduced.
- Rations are doubled for cows in calf.
- Cows are exercised in yard but never grazed.
- Goats grazed on waste and fodder fields.

*159 433 H. General.

- When asked whether he considered himself to be herdsman or farmer, replied that he might be regarded as a "general dealer" in crops and animals.
- In fact his enterprise is overwhelmingly directed towards production of milk and is yet another dependent on the guaranteed milk price.
- Fields are definitely secondary, though well-tended and are primarily for the provision of fodder.
- This farmer appears to make a modest profit from his enterprise, but has no appreciation of the costs involved.

CASE VII : Wenzu (A goats' and cows' milk producer with a small land holding.)

Like Case VI, Wenzu has been a goat herder and is now anxious to concentrate on dairy cows. At present he holds 4 Friesians, belonging to himself and his sons, but he wants to import Ayrshires. This cow, says Wenzu, is better suited to Maltese conditions, needing less feed than the Friesian and standing up better to long periods of confinement in cramped stalls. Wenzu became interested in cows when the Government forbade the selling of raw goats' milk in Valletta. For a time thereafter he sold bottled milk in the capital and then returned to selling raw goats' milk in still unclosed areas such as nearby Cospicua until that too came to an end with the evacuation in 1940. After the War he went back to cows' milk production and sold his output to the M.M.U. He acquired the Friesians through an exchange for inferior quality and diseased goats organised by the Government (one cow for 13 goats). At present, he says, cows' milk production is the more profitable ("Six cows will support a small family") but that this would not be so were it possible to give goats good grazing land at low cost. He reckons that good grazing saves 15/- per day on the fodder bill.

Wenzu's Case illustrates an important feature of the study of a predominantly illiterate section of society. This is the prominence of personality in the thoughts and actions of the individual. Unable to read and suspicious of what he may hear over Rediffusion, Wenzu relies on personal contact to a very considerable degree. This is clear from a brief survey of his life. He speaks nowadays of a certain Dr. MacFarlane whose veterinary skill and advice impressed him and who originally recommended him to keep Ayrshires. To listen to Wenzu talking of this "Scots Doctor" one gathers that Wenzu last spoke with him quite recently. In fact, however, Dr. A.M. MacFarlane was Superintendent Veterinary Surgeon in Malta some half a century ago! A Mr. Hurst gave him advice on bulls some 25 years ago while, much more recently, Mr. Ebejer Blythe of the Department of Agriculture gave him much valued information on lucerne as a fodder and, latest of all, Dr. Godfrey Alton, the veterinary expert, has become something of a help for the injections he has arranged. Evidently, therefore, any improvements in Maltese farming have a greater chance of success if this element of personal contact - particularly in the cases of illiterate farmers - can be established. One man who will argue with one farmer for a morning on a single topic stands a greater chance of general success than has the big public lecture or even the practical demonstration.

159 For once a single man can be convinced of the success of a
829 novel method or crop he will soon be copied by his fellows.
178 Wenzu himself observes that when he had heard about the
244 lucerne for the first time and had planted some with great success in his own fields neighbouring farmers were not slow to copy him (v. Section 4).

CASE VII : Summary.

159 (A goats' and cows' milk producer with a small land holding.)

423 A. Land.

427 - Has 3 timon, worked by another farmer who shares income (£21) with him.
- Holds on lease a further area which had been let out for building and brings him £32 p.a. - much more than could be obtained for its crops.
- Also rents grazing in summer months.

159 B. Utilisation.

241 - The 3 timon field is under sulla, barley and a few vegetables.

C. Livestock.

159 - Is changing over from goats to cattle.
- Goats: 1954: 60; 1957: 44; 1958: 38.
231 - Cattle: 4 Friesians; Aims to build up the herd by
234 private import of Ayrshires of which he has a high opinion. 3 of the cattle are owned by his sons though he tends them.

159 D. Capital.

[454] - No information, but appears to have some reserves.

E. Labour.

[464] - Some assistance from a son who is in govt. employment.
- Hires no labour.
- Thus does great bulk of the work himself.

F. Production and Sales.

[434] - Milk (Oct. 1957) 10 gallons goats' milk, 9 gallons cows' milk daily to M.M.U. Gives sons a share in
[234] income though they appear to make no payment to their father for fodder, stall accommodation etc.
- Calves and kids usually sold after weaning.

G. Husbandry.

159 (1) Grazing. Where possible, goats grazed out and this is
231 said to save him 15/- a day and to reduce sulla con-
[427] sumption to 4 bundles daily.
- Rents 7 timon of govt. land from part-timers at £1
[311] per month from Jan. to Aug.
- This land is good, cultivable land untended because of part-timers' inability to work it.

(2) Fodder.
- Cake, barley, potatoes, beans, sulla.
- Feeds all that the animals will take.
- Buys in bulk when prices low.
- In six months (Oct. 1957-Mar. 1958) used nearly ½ tons of cake and 15 tons of beans.
[435] - Sulla is bought at 9/- to 16/- per hamel according to
[434] quality and uses some 200 hamel per annum.
- Fodder costs leave very small profit margin from milk.

159 H. General.

156 - Attempting to profit from sales to M.M.U. with no knowledge of the economics involved.
- Extremely suspicious of agents, government etc.

159 - Has a higher opinion of his ability as a stock farmer than facts warrant.
156 - Aims to build up cattle herd in place of goats since he assumes (with no factual background) that profit will be greater.
[231] - Much influenced by personalities and is willing to accept advice uncritically if the person giving it is, in his opinion, sound.
- Lacks educational background and experience necessary to make a real profit from his herd, but seems content with present living conditions.

CASE VIII : Niklaws (A working partnership of five brothers with diversified production)

159 472 [423] [234] Niklaws is the primus inter pares in a permanent partnership of five brothers. The syndicate farms some 70 tmien and, in February, 1957, had a herd of thirty cattle. There is some division of labour among the five, with one being acknowledged the expert on cattle, another "knows most about the fields", and a third the driver and general business manager. Both their father, who died in 1915, and their grandfather were farmers but the brothers have considerably added to the holding.

159 472 234 433 [232] The emphasis of the partnership is now heavily on cows' milk production. They retain only two goats. With about 20 cows in milk they aim to produce some 50 gallons a day - Niklaws observes that the yield from cows can be maintained while that of goats fluctuates markedly with the seasons. Costs of cows' milk production are also steadier, says Niklaws, with fresh greenery in the winter and prickly pear in the summer months as supplements to the standard items of diet. The fodder produced on the brothers' own fields has to be supplemented by purchased feed but judicious use is made of vegetables in glut, especially cauliflowers which could be bought by the farmer at 1s per sack in early 1959.

159 409 454 234 [429] Mechanization on the farm includes the hiring of a mould-board and tractor to deep-plow the land every fourth year (cost - £1 per tomna), and the hiring of a threshing machine. The brothers themselves own two hand cultivators and a small van, complete with the partnership insignia on the door. Currently much capital is being put into building a large, two-storey cows' shed within the village. The brothers aim to centralise their milk herd here and plan to have an adjacent exercise yard and water tank. At present their animals are divided among three widely separated byres, although all of these are easily accessible by road - and the van. [435] One of the existing sheds was built between 1949 and 1952 at a cost of "£3,000". On the costs of the present building Niklaws will divulge nothing. His attitude suggests that the money is coming from saved reserves rather than a loan, for he appears reluctant to borrow money even on low interest terms "because anything might happen to prevent the money being repaid."

159 241 (ii) The intensive summer utilisation of the land for unirrigated summer vegetables is characteristic of this region. Tomatoes and brassicas are dominant. Vetches and beans are grown as catch-crops in small patches. This type of cropping sequence i.e. potatoes, vegetables, cereals, sulla, is typical of well-developed Maltese mixed-farming.

159 C. Livestock.

159 231 (i) c.33 head of cattle including 20-22 milch cows, 1 stud bull, 2 bull calves for fattening.

234 (ii) 2 goats, 1 mule, 1 pony, 12 hens.

(iii) The cattle-herd has been built up since 1940.

159 D. Capital.

159 [472] (i) The accepted leader of this partnership enterprise is typical of the more commercially minded and successful Maltese farmers in that he was prepared to discuss anything except financial details. The amount of capital of property and even the details of land-holding of this "kulak" class is known accurately by nobody.

[407] [343] [454] (ii) Equipment includes 1 van, 1 hand tractor, 2 water pumps and two large cattle byres. At local values, farm buildings and mechanised equipment represents over £8,000 investment.

[426] (iii) This partnership prefers to indulge in small-scale family borrowing and lending rather than to use official-and controlled- credit facilities.

[423] (iv) Two village houses and over 3 tmien of land are owned freehold.

159 E. Labour.

159 464 (i) Partnership labour force totals 6 full-time farm-workers (5 brothers and 1 adult son).

407 (ii) A youth employed full-time with cattle.

427 (iii) All plots are deep-plowed by crawler tractor every fourth year at cost of £1 per tomna.

(iv) On this relatively level land a varying fraction of cereal reaping is done by machine. Machine cutting costs £1 a tomna, hand harvesting £3 a tomna. Hand cutting is less wasteful of straw but these farmers have a rare appreciation of the importance of the time-element in their complex economic and land-use system.

159 F. Production and Sales.

159 433 (i) The only certain information obtainable is of sales of cows milk. During 1957 minimum daily sales averaged 283 lbs. during May, and the maximum of 350 lbs. during March was almost matched in August and the following January. This constancy of sales based on a firm intention to allow production to vary but slightly from an average of 30 gallons a day from 20 milch cows is rarely found in Malta and is typical only of a few technically advanced and commercially minded farmers.

159 43 (ii) The partnership although possessing a stud bull usually buys cows in milk (preferably Ayrshires), a 'good' yielder costing c.£210. Breeding and raising heifers if regarded as unprofitable.

(iii) The main sales of arable produce consist of summer cauliflowers and tomatoes. In an effort to avoid the usual glut of summer brassicas considerable importance is attached to extending the season of production into autumn and winter. Price variations are considerable e.g. In 1956 cauliflower prices dropped to 1/- a sack while in 1956 they had risen to 20/- a sack.

* H. General.

159 (i) In some of its characteristics this type of syndi-
472 cate is not typical of Maltese farming systems. e
451 The partnership seems to derive historically from a line of large farmers and is now held together by the drive and ability of one of their number.

*159 (ii) Nevertheless if one ignores the partnership organ-
472 isation one may use this case-study as illustrating
451 the practises and modes of thought of the most
181 highly developed type of Maltese farmer.

- Characteristically there is a marked reluctance to give any financial information. Official records and returns are even less accurate than in the case of smaller-scale and more ignorant cultivators. Some records are certainly kept by the group but individual shares in gross income do not seem to be formally arranged. There does no seem even here to be either a monetary evaluation of their own labour or any assessment of net profit as distinct from gross income. Receipts appear to go into a central treasury which is drawn on by agreement over each specific case.
- Although there is present considerable financial acumen this is a matter of peasant shrewdness rather than any real commercial understanding.

*159 - Yields are good - tomatoes will average 15 qantar
433 per tomna, grapes 10 qantar per tomna, but these
181 are attained by the careful application of
242 proverbial wisdom and not by the possession of better scientific understanding than their neighbours.

*159 - In spite of the fact that the syndicate's
181 capital reserves and their practical abilities
232 are considerable, the physical environment dom-
242 inates their actions. They are not prepared to experiment themselves and they look askance at those who are. One has an unhappy feeling that as already noted, their very success with traditional methods inhibits their acceptance of new ones. Thus even with farmers such as these there is a great mental gulf between them and typical farmers of Northern Europe and between them and their advisers.

*159 CASE IX : Antnin & Ġakbu (A long-established
472 partnership of two unrelated stock farmers now engaged in
464 cows' milk production.)

Both these men are married and occupy houses in the same street. They have operated as a single farming unit during their whole working lives and it is not always clear whether even they can distinguish which property belongs to each. The teenage eldest sons of each man work full-time with their fathers whose wives occasionally assist with

* field-work.

159 Some few years ago the two friends had 36 goats. By
178 1958 only two remained and the emphasis had swung to cows'
234 milk production. In 1956 they had about 18 cows; eighteen months later the joint herd had doubled in size. Their aim has been to build up as large a herd as possible as quickly as possible in order to benefit from the guaranteed price offered by the M.M.U. for milk produced. The two men insist that they are at the same time striving to build up a

159 178 234 substantial herd to hand over to their sons who, however, show no inclination to stay in farming.

* 159 232 829 234 A glance at their herd reveals their interest to be in quantity rather than quality. They admit, moreover, that they lack a good deal of knowledge on management of a herd of this size. A number of their cattle die from diseases and ailments of which Antnin and Ġakbu have little appreciation - official sources revealed that two which died in 1957 had anthrax. Their own inclination is to slaughter an ailing animal for meat before it dies naturally. If a cow dies without replacement from the Government they become very resentful. They also suffer a high death rate among imported calves and again blame 'Government'. "The Government never tells us anything about the rearing of animals" assert the two men somewhat naively since they also maintain that "no-one but the farmers knows farming".

* 159 234 231 In 1958, twelve of the cattle were Bastard-Inglizi type As the sanitary authorities would not grant a license for a larger herd to occupy the present makeshift accommodation (a patch-work, corrugated iron shed) Antnin and Ġakbu aimed to replace these Bastard-Inglizi with the same number of Friesian stock, though would have preferred to have gone on increasing the number in their herd - and thereby the amount of milk sold to the M.M.U.

* 159 234 433 [246] Antnin insists that "cows yield according to the amount they are fed". When asked for an estimate of the cost of producing a gallon of milk he asks "Who knows?" ("Min jaf?"). The fields held by the two men produce a considerable amount of fodder but much more has to be purchased. During glut conditions they feed very cheap cauliflower and, in the dry months between June and September, give the herd prickly pear at the rate of a lorry-load per day. They are almost unique among cows' milk producers in Malta and Gozo in that they are able to graze their animals on War Department land nearby although they have no guarantee of tenure.

* 159 434 426 Despite the large holding of land and the recent rapid increase in the size of the herd, the financial position of Antnin and Ġakbu is precarious in the extreme. They are operating in a permanent state of DEBT, and have a fluctuating debit account with the dealer who supplies them with fodder (cf. Case V). This makes them reluctant to take on any new debts at high interest rates. The Government loans at 1% do however appeal to them as means of buying more cattle and still further increasing their milk production. Their debt is such that the two friends can rarely keep female calves but have to sell them to pay hire-purchase instalments on cows.

*159 231 The cattle are very mixed in breed inc'uding "Bastard-Inglizi", supposedly pure Friesians and crosses between the two.

*159 D. Capital.

(i) No freehold property.

421 (ii) In perpetual debt, no reserves and frequent borrowings, particularly from the Government.

[423]

(iii) Equipment - usual hand tools

[454] - rotary cultivator bought with a Government loan of £550, repayable at £100 p.a. plus 1% interest.

[407] - small motor van, bought in 1953, for transport of milk.

[312] - no piped water until Feb. 1958.

*159 E. Labour.

464 - No permanent hired labour.

- One man and his daughter together at 30/- per diem and one youth at 25/- engaged at busy times.

- Family labour: two partners and their two eldest sons work full-time and there is additional help from wives and children.

*159 F. Production and Sales.

434 - Income almost entirely from sale of milk to M.M.U.

435 Production varies greatly: June 1957: 50 galls. daily; Dec. 1957: 35; Feb. 1958: 80. Sold at 5/6 to 6/- per gall.

- Male calves sold to butcher at £10; females sometimes sold at £30-£40 to pay debts.

- No accounts kept of feeding costs. These include one truckload of prickly pear (30/-) daily from June to October, beans at 55/- per qantar and cake at 46/- (July 1957). A considerable amount of grazing is carried out e.g. on sulla bought green at £6 per tonna.

- Potato sales insignificant and in 1957, owing to glut, involved a loss.

[433] - Vegetables produced are all consumed by the families.

*159 G. Husbandry.

231 (i) - The importance attached to grazing of cattle is unusual. (Most Maltese cattle are stall-fed all the year.)

- The emphasis is on numbers of stock rather than on their quality. The turn-over from goats to cattle has been helped by the government exchange scheme and by Govt. loans.

[232] - Occasional outbreaks of disease unnoticed until too late.

[241] (ii) - Crops are often neglected owing to time involved in animal husbandry.

*159 H. General.

234 The partnership is attempting to profit from guaranteed milk prices without the knowledge or skill to do so. The herd seems to have been built up beyond the numbers which 829 can be properly tended by the labour available.

There is little knowledge of modern methods and still less of costs and returns. The view is firmly held that "cows yield according to the amount they are fed" and the reply to the question "How much fodder is required to produce a gallon of milk was "Min jaf?" (Who knows?).

The partners are extremely conservative in their attitude to marketing, suspicious of outside interference and hostile towards the idea of co-operatives. Yet they expect [426] continued Government assistance.

Their general pessimistic attitude is summed up: "Il-bieđja f'Malta spiċċat" (Farming in Malta is finished).

Despite guaranteed milk prices on which the whole economy is based, the partnership is permanently in debt.

159 Their failure to profit contrasts with the success of the
879 Gozitan milk producer, Case I.
234 The partnership's main aim is to accumulate cattle with-
[433] in the current artificial economy of milk production. There is no thought or care for what might happen if the subsidy were removed or even reduced.

CASE X : Ġamri (An arable farmer in partnership with a brother and engaged in diversified production.)

159 Ġamri is an arable farmer, specialising in fruit. He
24 has a couple of goats and sheep, a mule, and is keen to
23 acquire more pigs for fattening. Most of his effort is how-
427 ever centred on the land holding which he and his brother work
472 in partnership. Some fifty-three tmien are rented by the two brothers together while Ġamri himself rents a further ten tmien. About two-thirds of the land (17 plots) is owned by private landlords, one sixth belongs to the Church, one tenth to the Government and the remainder - about an acre - is owned by Ġamri's father.

159 The working partnership of the two brothers is of many
402 years' standing. The brother's eldest son now works full-
464 time alongside the two men. The brothers say they could not
241 cope with any more land than they are working at present. They share the common view that hired farm labour is both uneconomic (at 25s or more for an eight-hour day) and inefficient. The land worked by the partnership is dry (bagħli) apart from two irrigable (saqwi) tmien. In 1957 it was utilized as follows:

[311]

Fruit and vines	21 tmien
Cereals and fodders	18 tmien
Fallow, unproductive, or sub-lot	13 tmien
Potatoes	6 tmien
Other vegetables	5 tmien

159 Apples are the biggest single cash crop and the overall
245 success of any year depends on them. They were introduced
242 to the district by Ġamri's father some years ago and now grow in large numbers in a sheltered valley along with lemons, oranges, mulberries, figs, cherry-plums and other fruits. The produce is good but is usually affected by some pest or disease. The most prevalent of these is a boring grub. Ġamri and his brother spend a large part of September and October simply gouging this pest from the trunks of affected trees - with penknife and piece of wire. They regard this time-consuming and unremunerative task fatalistically. But of late Ġamri has been wondering whether the same result might not be achieved in a fraction of the time by the application of some spray. He knows nothing of the details of this and is more than a little doubtful of possibilities.

159 Since 1953 Ġamri and his brother have expanded their
245 area under vines, buying seedlings from the Government Farm
[435] at 1d each. They consider vines the most profitable of crops, especially grapes for wine since these can be picked

000 was taken for granted.

*159 178 242 (iii) Reasonably prepared to try new crops if they are proven in his district. Not prepared to accept anything technically as revolutionary as a wheelbarrow mainly on the ground that "it is not used here".

CASE XII : Ċenzu (A cows' milk producer and village weighman.)

*159 557 241 234 [463] Ċenzu is an example of one type of part-time farmer in Malta and Gozo in that his farm is the more important of the two occupations for his livlihood. His work as licensed village weighman is important both because of the extra income which it brings and on account of the social standing which goes with the office. He is a shrewd and literate man who earlier in his life also engaged in importing and [454] other business. He was one of the many farmers able to [362] build up a substantial reserve as a result of the 1939-45 War. The house is spacious and well-appointed by local [727] standards and Ċenzu and his small family enjoy comfortable living conditions. His pre-War premises were damaged during the War and he received some £1800 official compensation to which he added a further £1200. This money was put towards the new house and towards the costs of building

*159 234 434 241 up his present herd of 12 cows, a bull and 10 goats. The milk produced and sold to the M.M.U. provides the basic element of his income but he also grows cash crops for sale. In the 1956/57 winter a third of his crop area was devoted to fodder. This increased to 74% in the following winter but, given a substantial improvement in the prevailing prices for cash crops, it is likely that he would devote more space once again to these and buy in a larger part of the fodder [432] needed. In 1957 he purchased over £1000 worth of fodder and received about £1350 for milk sold during the same period.

*159 829 474 [451] Unlike most farmers he keeps detailed records of his income and expenditure on the farm and animals and on the weighing side of his business, but he remains unwilling to discuss his revenue with even apparently trusted outsiders. This reticence seems to relate to the traditional independent outlook of the farmer, rather than to any anxiety to hide his accounts from a sense of guilt. He was prepared to join the Malta Milk Company (Il-Kumpanija Maltija tal-Halib) because he saw this as of some benefit to the milk producer in his relations with the M.M.U. authorities. But he has never been a member of a farmers' union and is clearly not interested in them although he thinks "A union might be a good idea". He shares the typical failure to appreciate the rôle of an efficient Union. Neither is he interested in joining a producers' Co-operative (Section 4).

000 As village-weighman he has a high social standing in the

*159 As village-weighman he has a high social standing in the
829 district. His literacy, spacious house, and herd of cows
178 further enhance his status. He maintains that within the
[554] village the place of the Parish priest is as over it was
[793] "in spite of the new learning". He notes that the increa-
[626] sing number of dissenting voices in the village are kept
firmly in their place by the pressure of public opinion but
that political rivalry, a comparatively recent feature in
[177] the village, is growing. The returning emigrant brings new
ideas - including some on religion - but the strength of
the Church remains much less questioned than is the case in
[794] the towns. Cenzu shares the still general view that money
given to the Church is "payment towards the good of the
[651] community". Money paid to the Government in the form of
taxes would, on the other hand, be regarded as an imposition
bringing no benefit to the individual, and therefore to be
avoided.

CASE XII : Summary.

*159 (A cows' milk producer and village weighman.)

423 A. Land.

427 33 Tmien in Mqabba-Kirkop Plain:
4 Field plots in 3 parcels, on Terra Rossa Soils
and Xero-Rendzinas.
All leased from 2 landlords: Total rent £34 per annum.

*159 B. Utilisation.

241 Over 5 Tmien wasteland.
Main concentration on fodder, which accounted for 74%
crop area in 1957/58, as against only 33% in 1956/57
winter season.
2 tmien under barley - pulled green.
3 tmien under sulla.
6½ tmien under vetches.
5 tmien under wheat.
c.10 tmien under potatoes.
Remainder under vegetables, prickly pear and fallow.
Main cash crops potatoes and onions.

*159 C. Livestock.

231 Late 1957 - 13 head of cattle (10 milch cows, 2 calves,
1 service bull). All Maltese Friesian. 10 goats;
234 1 ewe; 2 horses; 50 poultry; rabbits.
This herd was built up from 6 goats, 4 sheep and 1
cow in 1938.

*159 D. Capital.

[423] - No freehold land. Owns large village house.
[454] - No statement as to capital reserves but general evi-
dence suggests a sum of the order of £1500.
[407] - Equipment - no machinery, but normal range of local
tools.

*159 E. Labour.

464 - Family labour - one 30 year old son.
[465] - In 1956 male hired labour amounted to 60 days, and
female to 90 days.
Cost - men c.£1 a day, women c.14/- a day.
Hand labour almost entirely for sowing during autumn
and winter and harvesting in early summer.
[427] - Hires heavy tractor plow, rotary cultivator and
[241] threshing machine each year. Costs of contract
[407] plowing 13/- to £1 a tmien.

F. Production and Sales.

*159 433 434 234 [292] (i) Cows milk sales range from December minimum of c.153 lbs. per day to April maximum of c.290 lbs. per day. Regards 3 gallon output per head a day as minimum profitable production. Milk receipts in 1957 c.£1350. (Costs of purchased fodder £1000).
- Goats milk sold for cheesemaking ('riketta').
- About 20 gallons per annum of cows milk for cheese production.
- Practically no liquid milk drunk by family.

*159 241 [435] (ii) Potatoes - Winter Crop - September to December.
- 'Early' Crop - January to April.
Relies entirely on Arran Banner. Destination of crop depends on price e.g. Winter Crop 1956/57 sold at 23/4 per qantar for export. Winter Crop 1957/58 sold at 27/- per qantar for local market.

[433] - Usually produces c.50 qantar per annum and 4 or 5 used for domestic consumption.

[433] (iii) Onions produced for export and local market and for home consumption. Production fluctuates with climate - yields between extremes of 20 and 40 qantar per tomna.

(iv) - Small sales of vegetables - considerable range grown.
- Fodder production meets c.one-half requirements.

G. Husbandry.

(i) Land
(a) On best land typical sequence would be.

Sept.	(a)	Heavy manuring - 96 bags of dung and refuse per tomna.
Sept.-Dec.	(b)	Winter crop of potatoes.
Jan.	(c)	Artifical fertiliser - Sulphate of Ammonia 1 bag per tomna.
Jan.-April	(d)	Spring crop of potatoes.
May-Aug.	(e)	Summer fallow.
Sept.-April	(f)	Two crops of potatoes as (a) to (d).
May-Aug.	(g)	Onions - on watered land.
Sept.-May	(h)	Cultivation for and growing of wheat crop.
May-Aug.	(i)	Fallow.
Sept.-April	(j)	Sulla.

(b) More usual practice (which is not though of as a strict rotation) is local variation of four-year cycle.
- Manuring. Potatoes, Onions, Wheat, Sulla, Vetches and seed fodders such as Lucerne and Berseem are introduced into this basic scheme.
(c) On fields near house domestic vegetable crops, e.g. garlic, brassicas, pumpkins, and marrows.

(ii) Seeds
- Mainly relies on own seed but periodically buys seed-potatoes for maintaining standard of 'early' crop.

*159 232 (iii) Livestock - Breeds cattle from own stock but prepared to experiment e.g. interested in artificial insemination.
- Feeding. Has a fair idea of fodder needs of livestock but uses traditional combination of green legumes, sulla hay, beans and concentrates without measurement. Has started purchasing ready-mixed balanced feed.

H. General.

*159 433 451 (i) An example of the best type of cows' milk producer. Keeps rough accounts of expenditure and receipts from most of sales but even so does not think in terms of profit-income and does not compute family labour in monetary terms at all.

(ii) Is tending towards specialising in cattle-breeding and is inclined to doubt the value of the arable sector. Is typical of most of his class in that he keeps no accounts of fodder-production on his own

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50. Mr. J. McClemont, a Dairying Specialist visited Malta and Gozo from the United Kingdom in the summer of 1957, and, with his assistant Miss Paill, was responsible for much instruction and recommendation on the dairy industry in both Islands (v. Note 39).

51. The Agricultural and Fishing Industries (Financial Assistance) Act, (No.11 of 1956).